

Result No.	Score	Query	Match	Length	DB	ID	Description
1	34.06	100.0	652	3	US-08-996-441B-98	Sequence 98, App1	Sequence 98, App1
2	34.06	100.0	652	3	US-08-996-441B-111	Sequence 111, App1	Sequence 111, App1
3	34.06	100.0	652	3	US-08-993-722A-98	Sequence 98, App1	Sequence 98, App1
4	34.06	100.0	652	3	US-08-993-722A-111	Sequence 111, App1	Sequence 111, App1
5	34.06	100.0	652	3	US-08-993-170A-98	Sequence 98, App1	Sequence 98, App1
6	34.06	100.0	652	3	US-08-993-170A-111	Sequence 111, App1	Sequence 111, App1
7	34.06	100.0	652	3	US-08-993-775B-98	Sequence 98, App1	Sequence 98, App1
8	34.06	100.0	652	3	US-08-993-775B-111	Sequence 111, App1	Sequence 111, App1
9	34.06	100.0	652	4	US-09-377-466B-2	Sequence 2, App1	Sequence 2, App1
10	34.06	100.0	652	4	US-09-427-770-98	Sequence 98, App1	Sequence 98, App1
11	34.06	100.0	652	4	US-09-427-770-111	Sequence 111, App1	Sequence 111, App1
12	34.06	100.0	652	4	US-09-427-769-98	Sequence 98, App1	Sequence 98, App1
13	34.06	100.0	652	4	US-09-427-769-111	Sequence 111, App1	Sequence 111, App1
14	34.06	100.0	652	6	51.87091-2	Patent No. 5187091	Patent No. 5187091
15	34.06	100.0	652	6	51.87091-2	Sequence 111, App1	Sequence 111, App1
16	34.02	99.9	652	3	US-08-996-441B-68	Sequence 68, App1	Sequence 68, App1
17	34.02	99.9	652	3	US-08-993-722A-68	Sequence 111, App1	Sequence 111, App1
18	34.02	99.9	652	3	US-08-993-170A-68	Sequence 68, App1	Sequence 68, App1
19	34.02	99.9	652	3	US-08-993-775B-68	Sequence 68, App1	Sequence 68, App1
20	34.02	99.9	652	4	US-09-427-770-68	Sequence 68, App1	Sequence 68, App1
21	34.02	99.9	652	4	US-09-427-769-68	Sequence 68, App1	Sequence 68, App1
22	34.01	99.9	652	3	US-08-996-441B-14	Sequence 14, App1	Sequence 14, App1
23	34.01	99.9	652	3	US-08-993-722A-14	Sequence 14, App1	Sequence 14, App1
24	34.01	99.9	652	3	US-08-993-170A-14	Sequence 14, App1	Sequence 14, App1
25	34.01	99.9	652	3	US-08-993-775B-14	Sequence 14, App1	Sequence 14, App1
26	34.01	99.9	652	4	US-09-377-466B-6	Sequence 6, App1	Sequence 6, App1
27	34.01	99.9	652	4	US-09-427-770-14	Sequence 14, App1	Sequence 14, App1

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 OM protein - protein search, using BW mode.
 Run on: February 14, 2005, 15:17:38 ; Search time 43 Seconds
 1131.888 Million cell updates/sec

Title: US-10-614-076-98
 Perfect score: 3406
 Sequence: 1 MNPNRSEHDTIKTPNSED.....SFVSNKIVIDKTETPIVOL 652

Scoring table: BL0SUM22
 Gapext 0.5

Searched: 513545 seqs, 74659064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
 Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 150 summaries

Database : Issued Patents PA:
 1: /cgn2_6/podata/1/iaa/5A_COMB_pep:
 2: /cgn2_6/podata/1/iaa/5B_COMB_pep:
 3: /cgn2_6/podata/1/iaa/6A_COMB_pep:
 4: /cgn2_6/podata/1/iaa/6B_COMB_pep:
 5: /cgn2_6/podata/1/iaa/ECTUS_COMB_pep:
 6: /cgn2_6/podata/1/iaa/backfiles/pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	34.06	100.0	652	3	US-08-996-441B-98	Sequence 98, App1	Sequence 98, App1
2	34.06	100.0	652	3	US-08-996-441B-111	Sequence 111, App1	Sequence 111, App1
3	34.06	100.0	652	3	US-08-993-722A-98	Sequence 98, App1	Sequence 98, App1
4	34.06	100.0	652	3	US-08-993-722A-111	Sequence 111, App1	Sequence 111, App1
5	34.06	100.0	652	3	US-08-993-170A-98	Sequence 98, App1	Sequence 98, App1
6	34.06	100.0	652	3	US-08-993-170A-111	Sequence 111, App1	Sequence 111, App1
7	34.06	100.0	652	3	US-08-993-775B-98	Sequence 98, App1	Sequence 98, App1
8	34.06	100.0	652	3	US-08-993-775B-111	Sequence 111, App1	Sequence 111, App1
9	34.06	100.0	652	4	US-09-377-466B-2	Sequence 2, App1	Sequence 2, App1
10	34.06	100.0	652	4	US-09-427-770-98	Sequence 98, App1	Sequence 98, App1
11	34.06	100.0	652	4	US-09-427-770-111	Sequence 111, App1	Sequence 111, App1
12	34.06	100.0	652	4	US-09-427-769-98	Sequence 98, App1	Sequence 98, App1
13	34.06	100.0	652	4	US-09-427-769-111	Sequence 111, App1	Sequence 111, App1
14	34.06	100.0	652	6	51.87091-2	Patent No. 5187091	Patent No. 5187091
15	34.06	100.0	652	6	51.87091-2	Sequence 111, App1	Sequence 111, App1
16	34.02	99.9	652	3	US-08-996-441B-68	Sequence 68, App1	Sequence 68, App1
17	34.02	99.9	652	3	US-08-993-722A-68	Sequence 111, App1	Sequence 111, App1
18	34.02	99.9	652	3	US-08-993-170A-68	Sequence 68, App1	Sequence 68, App1
19	34.02	99.9	652	3	US-08-993-775B-68	Sequence 68, App1	Sequence 68, App1
20	34.02	99.9	652	4	US-09-427-770-68	Sequence 68, App1	Sequence 68, App1
21	34.02	99.9	652	4	US-09-427-769-68	Sequence 68, App1	Sequence 68, App1
22	34.01	99.9	652	3	US-08-996-441B-14	Sequence 14, App1	Sequence 14, App1
23	34.01	99.9	652	3	US-08-993-722A-14	Sequence 14, App1	Sequence 14, App1
24	34.01	99.9	652	3	US-08-993-170A-14	Sequence 14, App1	Sequence 14, App1
25	34.01	99.9	652	3	US-08-993-775B-14	Sequence 14, App1	Sequence 14, App1
26	34.01	99.9	652	4	US-09-377-466B-6	Sequence 6, App1	Sequence 6, App1
27	34.01	99.9	652	4	US-09-427-770-14	Sequence 14, App1	Sequence 14, App1

SUMMARIES

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GenCore version 5.1.6

US-09-427-769-14

US-08-996-441B-32

US-08-996-441B-48

US-08-993-722A-32

US-08-993-722A-48

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US-08-993-170A-54

US-08-993-170A-64

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US-08-993-170A-84

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US-08-993-170A-114

US-08-993-170A-124

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US-08-993-170A-144

US-08-993-170A-154

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US-08-993-170A-174

US-08-993-170A-184

US-08-993-170A-194

US-08-993-170A-204

US-08-993-170A-214

US-08-993-170A-224

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US-08-993-170A-244

US-08-993-170A-254

US-08-993-170A-264

US-08-993-170A-274

US-08-993-170A-284

US-08-993-170A-294

US-08-993-170A-304

US-08-993-170A-314

US-08-993-170A-324

US-08-993-170A-334

US-08-993-170A-344

US-08-993-170A-354

US-08-993-170A-364

US-08-993-170A-374

US-08-993-170A-384

US-08-993-170A-394

US-08-993-170A-404

US-08-993-170A-414

US-08-993-170A-424

US-08-993-170A-434

US-08-993-170A-444

US-08-993-170A-454

US-08-993-170A-464

US-08-993-170A-474

US-08-993-170A-484

US-08-993-170A-494

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US-08-993-170A-554

US-08-993-170A-564

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US-08-993-170A-584

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US-08-993-170A-684

US-08-993-170A-694

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US-08-993-170A-854

US-08-993-170A-864

US-08-993-170A-874

US-08-993-170A-884

US-08-993-170A-894

US-08-993-170A-904

US-08-993-170A-914

US-08-993-170A-924

US-08-993-170A-934

US-08-993-170A-944

ALIGNMENTS

RESULT 1	
US-08-996-441B-98	QY
Sequence 98 ; Application US/08996441B	361 SGNTVETRPIGSKTTISPFYGIKSTEPVQLSFDGOKVYRTIANTDVAAWNGKVYLG
Patent No. 6023013	361 SGNTVETRPIGSKTTISPFYGIKSTEPVQLSFDGOKVYRTIANTDVAAWNGKVYLG
GENERAL INFORMATION:	420
APPLICANT: English, Leigh H.	480
APPLICANT: Bruscock, Susan M.	421 VTKVDFSOYDQNETSTQYDSRKNNGHVSQAOSIDOLPPETDEPLEKAYSHQLYNAYE
APPLICANT: Malvar, Thomas M.	421 VTKVDFSOYDQNETSTQYDSRKNNGHVSQAOSIDOLPPETDEPLEKAYSHQLYNAYE
APPLICANT: Bryson, James W.	540
APPLICANT: Kuleza, Caroline A.	481 CFLMQRGRTIPFWTHRSVDENTIDAEKITOLPVVKAYALSAGASIEPGFTGGNL
APPLICANT: Walters, Frederick S.	481 CFLMQRGRTIPFWTHRSVDENTIDAEKITOLPVVKAYALSAGASIEPGFTGGNL
APPLICANT: Slatkin, Stephen L.	541 LFLKESSNSTAKFYTILNSAALLQYVRARYASTNLRFVQSNNDPLVYIINKTKN
APPLICANT: Von Tersch, Michael A.	541 LFLKESSNSTAKFYTILNSAALLQYVRARYASTNLRFVQSNNDPLVYIINKTKN
APPLICANT: Romano, Charles	541 LFLKESSNSTAKFYTILNSAALLQYVRARYASTNLRFVQSNNDPLVYIINKTKN
TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS	601 LFLKESSNSTAKFYTILNSAALLQYVRARYASTNLRFVQSNNDPLVYIINKTKN

Qy 601 DDDLYTQFDLATTNSNNCGSGDKNELIGAESFVSNEKIVDKIEFIPVQL 652
 Db 601 DDDLYTQFDLATTNSNNCGSGDKNELIGAESFVSNEKIVDKIEFIPVQL 652

RESULT 2
 US 08-396-441B-111
 Sequence 111, Application US/08996441B
 Patent No. 6023013

GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brusseck, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kulesza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Romano, Charles
 TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS
 NUMBER OF SEQUENCES: 113

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,441B
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:151
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/414-7577

INFORMATION FOR SEQ ID NO: 111:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear

us-08-396-441B-111

Query Match, Score 3406, DB 3, Length 652;
 Best Local Similarity 100.0%, Pred. No. 68-287;
 Matches 652; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MNPNNRSEHDITIKVTPNSELQTHNQYPLADNPNSTLELNKFRLMTEDSSTEVDLNS 60
 Db 1 MNPNNRSEHDITIKVTPNSELQTHNQYPLADNPNSTLELNKFRLMTEDSSTEVDLNS 60

Qy 61 TVKDAVGTCISVYQILGVGPAGALTFSYOSFLNTIWPSPADPKMAQVEVLIDK 120
 Db 61 TVKDAVGTCISVQILGVGPAGALTFSYOSFLNTIWPSPADPKMAQVEVLIDK 120

Qy 121 KIEEYAKSKALAEIQLQNLNFEDYVNAWSKKTPSLRSKRSQDRIRELFSQAEHFRN 180
 Db 121 KIEEYAKSKALAEIQLQNLNFEDYVNAWSKKTPSLRSKRSQDRIRELFSQAEHFRN 180

Qy 181 SMPSFAVSKPEVLFPLPTVQAQANTHLLKDAQVFGEBWGYSSDVAEYFHQLKLTQQY 240
 Db 181 SMPSFAVSKPEVLFPLPTVQAQANTHLLKDAQVFGEBWGYSSDVAEYFHQLKLTQQY 240

Qy 241 TDHCVNWVNGLNGRGSYTDWKENFRRENTLTVLDLIVLFPFDIRLYSKGVTEL 300

Db 241 TDHCVNWVNGLNGRGSYTDWKENFRRENTLTVLDLIVLFPFDIRLYSKGVTEL 300

Qy 301 TRDIFTDPIFSNLNTLQEGYGPTELSIENSIRKPHLFQDLYQIEFTLRQPGYFGKDSFNTW 360
 Db 301 TRDIFTDPIFSNLNTLQEGYGPTELSIENSIRKPHLFQDLYQIEFTLRQPGYFGKDSFNTW 360

Qy 361 SGNYETRPSIGSSKTTSPPFYCDKSTEPVQKLISFGOKVYRTIANTVAAWNGKVYLG 420
 Db 361 SGNYETRPSIGSSKTTSPPFYCDKSTEPVQKLISFGOKVYRTIANTVAAWNGKVYLG 420

Qy 421 VTKVDFSDQYDDQRNETSTQTYDSKRANGHSQAIDSQDLPETTDEPLEKAYSHQLNAYE 480
 Db 421 VTKVDFSDQYDDQRNETSTQTYDSKRANGHSQAIDSQDLPETTDBPLEKAYSHQLNAYE 480

Qy 481 CFIMQDGRGTIPFTWTHRSVDEFNTDAEKITQLPVKAVALSGASIEGGCFGTGNL 540
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Qy 541 LFKEKSSNSIAFKVTNSAALQYRVRVASTNLRFQNSNDFLVYINKTMNK 600
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Qy 601 DDDLYTQFDLATTNSNMGSGDKNELIGAESFVSNEKIVDKIEFIPVQL 652
 Db 601 DDDLYTQFDLATTNSNMGSGDKNELIGAESFVSNEKIVDKIEFIPVQL 652

RESULT 3
 US-08-393-722A-98
 Sequence 98, Application US/08993722A
 Patent No. 6061594

GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brusseck, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kulesza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Romano, Charles
 TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 PROTEINS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993,722A
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3106
 TELEX: 512/474-7577
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3106
 TELEX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 98:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear

MOLECULE TYPE: Protein
 us-08-993-722A-98

Query Match Similarity 100.0%; Score 3406; DB 3; Length 652;
 Best Local Similarity 100.0%; Pred. No. 6e-287; Indels 0; Gaps 0;
 Matches 652; Conservative 0; Mismatches 0;

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 Db 1 MNPNNRSEHDTIKVNTSELNTRNQYPLDNPNSTLEELNYKEFLRTEDESTEVDNS 60

Qy 61 TVKDAVGTGISTVQOLGVYGVPPAGALTSPYQFLNNTIWPADPWAFAQAEVLDK 120
 Db 61 TVKDAVGTGISTVQOLGVYGVPPAGALTSPYQFLNNTIWPADPWAFAQAEVLDK 120

Qy 121 KIEBEYAKSKALAAEGLQHQNFDDYNALNSWKTPLSLRSKRSQRDRILFQSQESHPN 180
 Db 121 KIEBEYAKSKALAAEGLQHQNFDDYNALNSWKTPLSLRSKRSQRDRILFQSQESHPN 180

Qy 181 SMPBFAVSKPEVFLPLPTIAQANTHJLLKDAQVEGEGMGSSEDVAEFYTHRLKLTOQY 240
 Db 181 SMPBFAVSKPEVFLPLPTIAQANTHJLLKDAQVEGEGMGSSEDVAEFYTHRLKLTOQY 240

Qy 241 TDHCYCNWAVGVLNGRLGSTYDAVKENFRPREMTITLTLVLFPEYDILYSKGCVKTEL 300
 Db 241 TDHCYCNWAVGVLNGRLGSTYDAVKENFRPREMTITLTLVLFPEYDILYSKGCVKTEL 300

Qy 301 TRDIFTDPFLSNTLQETQPTFSLSIENSIKPHFLDYLQGIEBFHTRLQPGYFGKDSFNW 360
 Db 301 TRDIFTDPFLSNTLQETQPTFSLSIENSIKPHFLDYLQGIEBFHTRLQPGYFGKDSFNW 360

Qy 361 SGNYVETRPIGSKTTTSPYFGDKSTEVQKUSFDGJKVYTTIANTDVAAMPNGKVYLG 420
 Db 361 SGNYVETRPIGSKTTTSPYFGDKSTEVQKUSFDGJKVYTTIANTDVAAMPNGKVYLG 420

Qy 421 VTKUDPSQYDQKNETSTQYTDKSKRNNGHVSAQSDIDQPPETDEPLEKAYSHOLNYAE 480
 Db 421 VTKUDPSQYDQKNETSTQYTDKSKRNNGHVSAQSDIDQPPETDEPLEKAYSHOLNYAE 480

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 Db 541 LFKESSNSIAKFKTILNSAALLORYRVRYASTNLRLFVQNSNNDLFLVYINKTMNK 600

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 Db 601 DDDLTQFDLATTNSNMGFSDKNEELIGAESFSYNEKYIDKIEFIPVQL 652

RESULT 4
 US-08-993-722A-111
 ; Sequence 1.1.1. Application US/08993722A
 ; Patent No. 606094
 ; GENERAL INFORMATION
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Bruscock, Susan M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulcsza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; APPLICANT: Romano, Charles
 ; NUCLEIC ACID SEGMENTS ENCODING MODIFIED
 ; TITLE OF INVENTION:
 ; TITLE OF INVENTION: COLEOPHERAN-TOXIC CRYSTAL PROTEINS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston

Qy 601 DDDLTQFDLATTNSNMGFSDKNEELIGAESFSYNEKYIDKIEFIPVQL 652
 ; ZIP: 77210
 ; STATE: Texas
 ; COUNTRY: USA
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/993-722A
 ; FILING DATE: 18-DEC-1997
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 23,928
 ; REFERENCE/DOCKET NUMBER: MECO-149
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3106
 ; TELEFAX: 512/474-1577
 ; INFORMATION FOR SEQ ID NO: 111:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; US-08-993-722A-111

Query Match 100.0%; Score 3406; DB 3; Length 652;
 Best Local Similarity 100.0%; Pred. No. 6e-287; Indels 0; Gaps 0;
 Matches 652; Conservative 0; Mismatches 0;

Qy 1 MNPNNRSEHDTIKVNTSELNTRNQYPLDNPNSTLEELNYKEFLRTEDESTEVDNS 60
 Db 1 MNPNNRSEHDTIKVNTSELNTRNQYPLDNPNSTLEELNYKEFLRTEDESTEVDNS 60

Qy 61 TVKDAVGTGISTVQOLGVYGVPPAGALTSPYQFLNNTIWPADPWAFAQAEVLDK 120
 Db 61 TVKDAVGTGISTVQOLGVYGVPPAGALTSPYQFLNNTIWPADPWAFAQAEVLDK 120

Qy 121 KIEBEYAKSKALAAEGLQHQNFDDYNALNSWKTPLSLRSKRSQRDRILFQSQESHPN 180
 Db 121 KIEBEYAKSKALAAEGLQHQNFDDYNALNSWKTPLSLRSKRSQRDRILFQSQESHPN 180

Qy 181 SMPBFAVSKPEVFLPLPTIAQANTHJLLKDAQVEGEGMGSSEDVAEFYTHRLKLTOQY 240
 Db 181 SMPBFAVSKPEVFLPLPTIAQANTHJLLKDAQVEGEGMGSSEDVAEFYTHRLKLTOQY 240

Qy 241 TDHCYCNWAVGVLNGRLGSTYDAVKENFRPREMTITLTLVLFPEYDILYSKGCVKTEL 300
 Db 241 TDHCYCNWAVGVLNGRLGSTYDAVKENFRPREMTITLTLVLFPEYDILYSKGCVKTEL 300

Qy 301 TRDIFTDPFLSNTLQETQPTFSLSIENSIKPHFLDYLQGIEBFHTRLQPGYFGKDSFNW 360
 Db 301 TRDIFTDPFLSNTLQETQPTFSLSIENSIKPHFLDYLQGIEBFHTRLQPGYFGKDSFNW 360

Qy 361 SGNYVETRPIGSKTTTSPYFGDKSTEVQKUSFDGJKVYTTIANTDVAAMPNGKVYLG 420
 Db 361 SGNYVETRPIGSKTTTSPYFGDKSTEVQKUSFDGJKVYTTIANTDVAAMPNGKVYLG 420

Qy 421 VTKUDPSQYDQKNETSTQYTDKSKRNNGHVSAQSDIDQPPETDEPLEKAYSHOLNYAE 480
 Db 421 VTKUDPSQYDQKNETSTQYTDKSKRNNGHVSAQSDIDQPPETDEPLEKAYSHOLNYAE 480

Qy 541 LFKESSNSIAKFKTILNSAALLORYRVRYASTNLRLFVQNSNNDLFLVYINKTMNK 600
 Db 541 LFKESSNSIAKFKTILNSAALLORYRVRYASTNLRLFVQNSNNDLFLVYINKTMNK 600

Qy 601 DDDLTQFDLATTNSNMGFSDKNEELIGAESFSYNEKYIDKIEFIPVQL 652
 Db 601 DDDLTQFDLATTNSNMGFSDKNEELIGAESFSYNEKYIDKIEFIPVQL 652

Qy 601 DDDLTQFDLATTNSNMGFSDKNEELIGAESFSYNEKYIDKIEFIPVQL 652
 ; ZIP: 77210
 ; STATE: Texas
 ; COUNTRY: USA
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/993-722A
 ; FILING DATE: 18-DEC-1997
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 23,928
 ; REFERENCE/DOCKET NUMBER: MECO-149
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3106
 ; TELEFAX: 512/474-1577
 ; INFORMATION FOR SEQ ID NO: 111:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; US-08-993-722A-111

RESULT 5

US-08-993-170A-98
Sequence 98, Application US/08993170A
Patent No. 6063597

GENERAL INFORMATION:

APPLICANT: English, Leigh H.
Brussock, Susan M.
Malvar, Thomas M.
Bryson, James W.
Kulesza, Caroline A.
Walters, Frederick S.
Slatin, Stephen L.
APPLICANT: Von Tersch, Michael A.

TITLE OF INVENTION: POLYPEPTIDE COMPOSITIONS TOXIC TO COLEOPTERAN INSECTS

NUMBER OF SEQUENCES: 113

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4333
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.3.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/993.170A
FILING DATE: 18-DEC-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECO:002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 98:

SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-993-170A-98

Query Match 100.0%; Score 3406; DB 3; Length 652;
Best Local Similarity 100.0%; Pred. No. 6e-287;
Matches 652; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 MNPNRSEDTIKVTPNSELQTNHNOYPLADNPNSTLBNYKEFLMTEDSSTEVDLNS 60
1 MNPNRSEDTIKVTPNSLQTNHNOYPLADNPNSTLBNYKEFLMTEDSSTEVDLNS 60

Db 61 TVKDAVGTRGIVSYQILGVPPAGALTSPYQOSFLINTIWPSPADPKMAQEVLIDK 120
61 TVKDAVGTRGIVSYQILGVPPAGALTSPYQSFINTIWPSPADPKMAQEVLIDK 120

Db 121 KIEEYAKSKALAEQGLQLNFEQYNAUNLSWKETPLSLRSKSQDRRELFSQAESHRN 180
121 KIEEYAKSKALAEQGLQLNFEQYNAUNLSWKETPLSLRSKSQDRRELFSQAESHRN 180

Db 61 SPPSAVSKFEVLPLPTYAQANTHLLLKDQVFGEEWGYSEDVAEYFHQLKLQTQY 240
61 SPPSAVSKFEVLPLPTYAQANTHLLLKDQVFGEEWGYSEDVAEYFHQLKLQTQY 240

Db 181 SPPSAVSKFEVLPLPTYAQANTHLLLKDQVFGEEWGYSEDVAEYFHQLKLQTQY 240
181 SPPSAVSKFEVLPLPTYAQANTHLLLKDQVFGEEWGYSEDVAEYFHQLKLQTQY 240

Db 241 TDHCVNWYNGLNLGRGSTYDANVKENFRREMTLTVDLIVLFPFYDIRLYSKGYKTEL 300
241 TDHCVNWYNGLNLGRGSTYDANVKENFRREMTLTVDLIVLFPFYDIRLYSKGYKTEL 300

Db 241 TDHCVNWYNGLNLGRGSTYDANVKENFRREMTLTVDLIVLFPFYDIRLYSKGYKTEL 300

RESULT 7
 US-08-993-775B-98
 Sequence 98, Application US/08993775B
 Patent No. 6077824
 GENERAL INFORMATION
 APPLICANT: English, Leigh H.
 APPLICANT: Bruscock, Thomas M.
 APPLICANT: Malvar, James W.
 APPLICANT: Bryson, Caroline A.
 APPLICANT: Kulesza, Frederick S.
 APPLICANT: Walters, Stephen L.
 APPLICANT: Slatin, Michael A.
 APPLICANT: Von Tersch, Michael A.
 TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF
 TITLE OF INVENTION: DELTA-ENDOTOXINS AGAINST INSECT PESTS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 ZIP: 77210
 COMPUTER READABLE FORM:

Query Match Similarity 100.0%; Score 3406; DB 3; Length 652;
 Best Local Similarity 100.0%; Pred. No. 6e-287; Gaps 0;
 Matches 652; Conservative 0; Mismatches 0; Indels 0;

Qy 1 MNPNNESEHDITKVTPNSELQTNHNOYPLADNPNSTLEELNYKEPLRMTDSSTEVLDS 60
 Db 1 MNPNNESEHDITKVTPNSELQTNHNOYPLADNPNSTLEELNYKEPLRMTDSSTEVLDS 60

Qy 61 TVRDAVGTVGTSVQGQIQLGVYCPFAGALTSPYQSINTNIVPSDADWKAMQAQEVLDK 120
 Db 61 TVRDAVGTVGTSVQGQIQLGVYCPFAGALTSPYQSINTNIVPSDADWKAMQAQEVLDK 120

Qy 121 KIEEYAKSKALAELOGQNPFEDYNALNSNMKTKPLSLRSRSQRDRIELFSOAEHSFRN 180
 Db 121 KIEEYAKSKALAELOGQNPFEDYNALNSNMKTKPLSLRSRSQRDRIELFSOAEHSFRN 180

Qy 181 SMPFAVSKFEVLFLPTYAQANTHLLRDLQAVQFEEWGYSSDEDVAEFTHRLKLTOQY 240
 Db 181 SMPFAVSKFEVLFLPTYAQANTHLLRDLQAVQFEEWGYSSDEDVAEFTHRLKLTOQY 240

Qy 241 TDHCVNWVNGVNGLRSITYDAWKENRFREMTIVLDLIVLFPYDILYSKGVKTEL 300
 Db 241 TDHCVNWVNGVNGLRSITYDAWKENRFREMTIVLDLIVLFPYDILYSKGVKTEL 300

Qy 301 TRDIFTDPISLNTLOXYGPTFLSIENSIRKPHLFDYLOGIEFHTRLQPGYFGKDSFNWY 360
 Db 301 TRDIFTDPISLNTLOXYGPTFLSIENSIRKPHLFDLQGIEFHTRLQPGYFGKDSFNWY 360

Qy 361 SGNYVTRPSIGSSKTTSPYGDKSTEPPVOKLSDFGQKQYRTIANTDVAWPNGKRVLYG 420
 Db 361 SGNYVTRPSIGSSKTTSPYGDKSTEPPVOKLSDFGQKQYRTIANTDVAWPNGKRVLYG 420

Qy 421 VTKVDFSOYDDQNETSTQTDSKRANGHVSQDSIDQLPETTDPLEXKAYSHOLNAYA 480
 Db 421 VTKVDFSOYDDQNETSTQTDSKRANGHVSQDSIDQLPETTDPLEXKAYSHOLNAYA 480

Qy 481 CPMQDRGRTIPFTWTHRSDFFNTIDAEEKITQLPVVKAVALSSASIEBGPFTGQNL 540
 Db 481 CPMQDRGRTIPFTWTHRSDFFNTIDAEEKITQLPVVKAVALSSASIEBGPFTGQNL 540

Qy 541 LFLKESSNSIAFKVTLNSSAIIQLRYVRIRYASTNLRLFVQNSNDFLVYINXTMNK 600
 Db 541 LFLKESSNSIAFKVTLNSSAIIQLRYVRIRYASTNLRLFVQNSNDFLVYINXTMNK 600

Qy 601 DDPLYQTFDIALTNSNGCSDKNEELIJGAESVSNEKIYDKIEFIPVQL 652
 Db 601 DDPLYQTFDIALTNSNGCSDKNEELIJGAESVSNEKIYDKIEFIPVQL 652

RESULT 7
 US-08-993-775B-98
 Sequence 98, Application US/08993775B
 Patent No. 6077824
 GENERAL INFORMATION
 APPLICANT: English, Leigh H.
 APPLICANT: Bruscock, Thomas M.
 APPLICANT: Malvar, James W.
 APPLICANT: Bryson, Caroline A.
 APPLICANT: Kulesza, Frederick S.
 APPLICANT: Walters, Stephen L.
 APPLICANT: Slatin, Michael A.
 APPLICANT: Von Tersch, Michael A.
 TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF
 TITLE OF INVENTION: DELTA-ENDOTOXINS AGAINST INSECT PESTS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 ZIP: 77210
 COMPUTER READABLE FORM:

Query Match Similarity 100.0%; Score 3406; DB 3; Length 652;
 Best Local Similarity 100.0%; Pred. No. 6e-287; Gaps 0; Indels 0; Mismatches 0; Gaps 0;

Qy 1 MNPNNRSEHTIKTPNSELQTNHNOYPLADNPNSTLEELNYKEPLRMTDSSTEVLDS 60
 Db 1 MNPNNRSEHTIKTPNSELQTNHNOYPLADNPNSTLEELNYKEPLRMTDSSTEVLDS 60

Qy 61 TVKDAVGTG1SVVGQIQLGVYCPFAGALTSPYQSPLNTWPSDADPKMAQEVLIDK 120
 Db 61 TVKDAVGTG1SVVGQIQLGVYCPFAGALTSPYQSPLNTWPSDADPKMAQEVLIDK 120

Qy 121 KIEEYAKSKALAELOGQNPFEDYNALNSWMKTKPLSLRSRSQRDRIELFSOAEHSFRN 180
 Db 121 KIEEYAKSKALAELOGQNPFEDYNALNSWMKTKPLSLRSRSQRDRIELFSOAEHSFRN 180

Qy 181 SMPSPAVSKFEVLFLPTYAQANTHLLRDLQAVQFEEWGYSSDEDVAEFTHRLKLTOQY 240
 Db 181 SMPSPAVSKFEVLFLPTYAQANTHLLRDLQAVQFEEWGYSSDEDVAEFTHRLKLTOQY 240

Qy 241 TDHCVNWVNGVNGLRSITYDAWKENRFREMTIVLDLIVLFPYDILYSKGVKTEL 300
 Db 241 TDHCVNWVNGVNGLRSITYDAWKENRFREMTIVLDLIVLFPYDILYSKGVKTEL 300

Qy 301 TRDIFTDPISLNTLOXYGPTFLSIENSIRKPHLFDYLOGIEFHTRLQPGYFGKDSFNWY 360
 Db 301 TRDIFTDPISLNTLOXYGPTFLSIENSIRKPHLFDLQGIEFHTRLQPGYFGKDSFNWY 360

Qy 361 SGNYVTRPSIGSSKTTSPYGDKSTEPPVOKLSDFGQKQYRTIANTDVAWPNGKRVLYG 420
 Db 361 SGNYVTRPSIGSSKTTSPYGDKSTEPPVOKLSDFGQKQYRTIANTDVAWPNGKRVLYG 420

Qy 421 VTKVDFSOYDDQNETSTQTDSKRANGHVSQDSIDQLPETTDPLEXKAYSHOLNAYA 480
 Db 421 VTKVDFSOYDDQNETSTQTDSKRANGHVSQDSIDQLPETTDPLEXKAYSHOLNAYA 480

Qy 481 CPMQDRGRTIPFTWTHRSDFFNTIDAEEKITQLPVVKAVALSSASIEBGPFTGQNL 540
 Db 481 CPMQDRGRTIPFTWTHRSDFFNTIDAEEKITQLPVVKAVALSSASIEBGPFTGQNL 540

Qy 541 LFLKESSNSIAFKVTLNSSAIIQLRYVRIRYASTNLRLFVQNSNDFLVYINXTMNK 600
 Db 541 LFLKESSNSIAFKVTLNSSAIIQLRYVRIRYASTNLRLFVQNSNDFLVYINXTMNK 600

Qy 601 DDPLYQTFDIALTNSNGCSDKNEELIJGAESVSNEKIYDKIEFIPVQL 652
 Db 601 DDPLYQTFDIALTNSNGCSDKNEELIJGAESVSNEKIYDKIEFIPVQL 652

Qy	361	SGNYVTRPSIGSSKTTTSPFYGDKESTEPVQLSFQKYRTIANTDVAAPNGKVLYLG	420
Db	361	SGNYVTRPSIGSSKTTTSPFYGDKESTEPVQLSFQKYRTIANTDVAAPNGKVLYLG	420
Qy	421	VTKVDFSYQDDORNESTQYDSKRNGHVSQAQS DQLPPTTDBPLEKAYSHQINYAE	480
Db	421	VTKVDFSYQDDORNESTQYDSKRNGHVSQAQS DQLPPTTDBPLEKAYSHQINYAE	480
Qy	481	CFLMDQRGTLPPFTWRSYDFENTIDAEEKITOLPVVKAYALSSASIIIEGPGFQGNL	540
Db	481	CFLMDQRGTLPPFTWRSYDFENTIDAEEKITOLPVVKAYALSSASIIIEGPGFQGNL	540
Qy	541	LFLKESSNSIAKPKVTLNSAALLQVRVIRYASTNLRLFVQNSNDLFVYINRTMNK	600
Db	541	LFLKESSNSIAKPKVTLNSAALLQVRVIRYASTNLRLFVQNSNDLFVYINRTMNK	600
Qy	601	DDDLTYQFDLATTNSNGFSCDKNELLIGAESFVNEKAYIDKIEFIPVQL	652
Db	601	DDDLTYQFDLATTNSNGFSCDKNELLIGAESFVNEKAYIDKIEFIPVQL	652
RESULT 9			
US-09-377-466B-2			
; Sequence 2, Application US/09377466B			
; Patent No. 6501009			
; GENERAL INFORMATION:			
; APPLICANT: Romano, Charles P.			
; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plant			
; FILE REFERENCE: 38-21 (15304) Cry3Bb Improved Exp. Corn			
; CURRENT APPLICATION NUMBER: US/09/377,466B			
; CURRENT FILING DATE: 1999-08-19			
; NUMBER OF SEQ ID: NOS: 43			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO: 2			
; LENGTH: 652			
; TYPE: PRT			
; ORGANISM: Bacillus thuringiensis			
US-09-377-466B-2			
Qy	1	Query Match Score 3406; DB 4; Length 652;	
Db	1	Best Local Similarity 100.0%; Pred. No. 6-27;	
Matches	652	Conservative 0; Mismatches 0; Indels 0;	
Qy	1	MNPNNRSEHDITKVTPNSLQTNHNQPLADNPNSTEELNKYKEFRMTEDSSTEVLDNS	60
Db	1	MNPNNRSEHDITKVTPNSLQTNHNQPLADNPNSTEELNKYKEFRMTEDSSTEVLDNS	60
Qy	61	TVKDAVGTGISVQGQILGVGVYPFAAGALTSTYQSFNTINTPSDADPKWAQMAQEVLIDK	120
Db	61	TVKDAVGTGISVQGQILGVGVYPFAAGALTSTYQSFNTINTPSDADPKWAQMAQEVLIDK	120
Qy	121	KIEEYAKSKAELCQDNFEDYVNALSMWKTKPLSLRSKRSQDIRELFSQAESSHFRN	180
Db	121	KIEEYAKSKAELCQDNFEDYVNALSMWKTKPLSLRSKRSQDIRELFSQAESSHFRN	180
Qy	181	SNMPFAVSKFEVLFPLTYAQANTHILLKDAQVFEEMGYSSEDVAEFYHQLKLQQY	240
Db	181	SNMPFAVSKFEVLFPLTYAQANTHILLKDAQVFEEMGYSSEDVAEFYHQLKLQQY	240
Qy	241	TDHCVVNVVNVGLNGLRSTYDAWKPNRFRREMLTFLDVLLFPPYDIDLRSKGVKTEL	300
Db	241	TDHCVVNVVNVGLNGLRSTYDAWKPNRFRREMLTFLDVLLFPPYDIDLRSKGVKTEL	300
Qy	301	TRDIPTDPIFLSLNTLQGYGPTFLSIENSIRKPHLFYDLOGIEFHTRLQPGYFGKDSFENYW	360
Db	301	TRDIPTDPIFLSLNTLQGYGPTFLSIENSIRKPHLFYDLOGIEFHTRLQPGYFGKDSFENYW	360
Qy	361	SGNYVTRPSIGSSKTTTSPFYGDKESTEPVQLSPGQKYRTIANTDVAAPNGKVLYLG	420
Db	361	SGNYVTRPSIGSSKTTTSPFYGDKESTEPVQLSPGQKYRTIANTDVAAPNGKVLYLG	420
Qy	421	VTKVDFSYQDDORNESTQYDSKRNGHVSQAQS DQLPPTTDBPLEKAYSHQINYAE	480

RESULT 10
US-09-427-770-98
; Sequence 98, Application US/0942770
; Patent No. 6620988
GENERAL INFORMATION:
; APPLICANT: English, Leigh H.
; APPLICANT: Brussock, Susan M.
; APPLICANT: Malvar, Thomas M.
; APPLICANT: Bryson, James W.
; APPLICANT: Kuleza, Caroline A.
; APPLICANT: Walters, Frederick S.
; APPLICANT: Slatin, Stephen L.
; APPLICANT: Von Tersch, Michael A.
; APPLICANT: Romano, Charles
TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
TITLE OF INVENTION: COLBOPERAN-TOXIC CRYSTAL PROTEINS
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.3.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/427,770
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 09/993,722
FILING DATE: 18-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Kitcheil, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECO:149
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3106
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 98:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-427-770-98
Query Match 100.0%; Score 3406; DB 4; Length 652;
Best Local Similarity 100.0%; Pred. No. 6e-287; Mismatches 0; Indels 0; Gaps 0;
Matches 652; Conservative 0; ;
1 MNPNRSEHDTIKVTPNSELQTNHNOPLADNPNSTLLENYKEFLRMEDSSTEVLDS 60
Db 1 MNPNRSEHDTIKVTPNSELQTNHNOPLADNPNSTLLENYKEFLRMEDSSTEVLDS 60
Qy 61 TVKDAYTGTISVGQOLIGWGPFGALTSFYQSINTWPSDADPKMAQEVLIDK 120
Db 61 TVKDAYTGTISVGQOLIGWGPFGALTSFYQSINTWPSDADPKMAQEVLIDK 120
Qy 121 KIEEYASKALAELOGQNNEFDYTNAWNWKTPSLRSRSQRDRLEFSQAESHRN 180
Db 121 KIEEYASKALAELOGQNNEFDYTNAWNWKTPSLRSRSQRDRLEFSQAESHRN 180
Qy 121 KIEEYASKALAELOGQNNEFDYTNAWNWKTPSLRSRSQRDRLEFSQAESHRN 180
Db 121 KIEEYASKALAELOGQNNEFDYTNAWNWKTPSLRSRSQRDRLEFSQAESHRN 180
Qy 181 SMPSFAVKPEFLPLPYAQANTHLLKDAQVFGEWGSSVEDAEEFHQLKTQY 240
Db 181 SMPSFAVKPEFLPLPYAQANTHLLKDAQVFGEWGSSVEDAEEFHQLKTQY 240
Qy 241 TDECVNWNNGNLRGSTDYAWKERNFRREMTLTLDLVLFPPDILYSGKVTEL 300
Db 241 TDECVNWNNGNLRGSTDYAWKERNFRREMTLTLDLVLFPPDILYSGKVTEL 300
Qy 301 TRDIFTDPFSINTLQEGPTFUSIENSIRPHFLDYLQGEFHTRLQPGFQGDOSFNYW 360
Db 301 TRDIFTDPFSINTLQEGPTFUSIENSIRPHFLDYLQGEFHTRLQPGFQGDOSFNYW 360
Qy 361 SGNYVETRSPSIGSKTTSPVQKLISFDQKVRTIANTDAMPNGKTYLG 420
Db 361 SGNYVETRSPSIGSKTTSPVQKLISFDQKVRTIANTDAMPNGKTYLG 420
Qy 421 VTKYDFSQYDDQNETSTOTYDKRNCHVSAQDSIDOLPPTTDEPLEKAYSHQNYAE 480
Db 421 VTKYDFSQYDDQNETSTOTYDKRNCHVSAQDSIDOLPPTTDEPLEKAYSHQNYAE 480
Qy 481 CPMQDRRGTTIPFTWTHRSVDFFNTDAEKITOLPVKAYALSSGASIEGPGFTGGLN 540
Db 481 CPMQDRRGTTIPFTWTHRSVDFFNTDAEKITOLPVKAYALSSGASIEGPGFTGGLN 540
Qy 541 LFLESNSNIAKFKTLYNSAALLQYRVRIRYASTNRLFVONSNDFLVYINKTMNK 600
Db 541 LFLESNSNIAKFKTLYNSAALLQYRVRIRYASTNRLFVONSNDFLVYINKTMNK 600
Qy 601 DDDIYTQFDLATINNMGFSGDKNELLIGAESVSNEKIVYDKEFIPVOL 652
Db 601 DDDIYTQFDLATINNMGFSGDKNELLIGAESVSNEKIVYDKEFIPVOL 652
RESULT 11
US-09-427-770-111
; Sequence 111, Application US/0942770
; Patent No. 6620988
GENERAL INFORMATION:
; APPLICANT: English, Leigh H.
; APPLICANT: Brussock, Susan M.
; APPLICANT: Malvar, Thomas M.
; APPLICANT: Bryson, James W.
; APPLICANT: Kulesza, Caroline A.
; APPLICANT: Walters, Frederick S.
; APPLICANT: Slatin, Stephen L.
; APPLICANT: Von Tersch, Michael A.
; APPLICANT: Romano, Charles
TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
TITLE OF INVENTION: COLBOPERAN-TOXIC CRYSTAL PROTEINS
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.3.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/427,770
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 09/993,722
FILING DATE: 18-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Kitcheil, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECO:149
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3106
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 98:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-427-770-98
Query Match 100.0%; Score 3406; DB 4; Length 652;
Best Local Similarity 100.0%; Pred. No. 6e-287; Mismatches 0; Indels 0; Gaps 0;
Matches 652; Conservative 0; ;
1 MNPNRSEHDTIKVTPNSELQTNHNOPLADNPNSTLLENYKEFLRMEDSSTEVLDS 60
Qy

APPLICATION NUMBER: US/09/427,770
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/993,722
 FILING DATE: 18-DEC-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO-149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3106
 TELEFAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 111:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 US-09-427-770-111

Query Match 100.0%; Score 3406; Length 652;
 Best Local Similarity 100.0%; Pred. No. 6e-287;
 Matches 652; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MNPNRSEHTDTKTPNSELQTHNQYPLADNPNSTLEELNKFLRMTEDSSTEVDLNS 60
 Db 1 MNPNRSEHTDTKTPNSELQTHNQYPLADNPNSTLEELNKFLRMTEDSSTEVDLNS 60
 Qy 61 TVKDAVGIGISVGQILGVGPAGALTSTFYOSFLNTIWPSPADPMWKAQVEVLIDK 120
 Db 61 TVKDAVGIGISVGQILGVGPAGALTSTFYOSFLNTIWPSPADPMWKAQVEVLIDK 120
 Qy 121 KIEBEYAKSKALARLQLGQNFDYVNAISWCKTPLSRKSQSQRDLRELFSAQESHRN 180
 Db 121 KIEBEYAKSKALARLQLGQNFDYVNAISWCKTPLSRKSQSQRDLRELFSAQESHRN 180
 Qy 181 SMPSFAVSKFEVLFPLTYAQANTHLLKKDAQVFGEWGKSYSEDVAEYFRQLKTQY 240
 Db 181 SMPSFAVSKFEVLFPLTYAQANTHLLKKDAQVFGEWGKSYSEDVAEYFRQLKTQY 240
 Qy 241 TDHCVNWTNVGLNRGSGTYDAWKFNFRRENTLTVDLIVLPFPDIRLYSKGVTEL 300
 Db 241 TDHCVNWTNVGLNRGSGTYDAWKFNFRRENTLTVDLIVLPFPDIRLYSKGVTEL 300
 Qy 301 TRIFTDFTFSNLTLQEQTPGTFSIENSIRKPHFLDYLQGIEFHTRIQGPGKDSFNYW 360
 Db 301 TRIFTDFTFSNLTLQEQTPGTFSIENSIRKPHFLDYLQGIEFHTRIQGPGKDSFNYW 360
 Qy 361 SGNYVETRPSIGSSKTTSPYGDKSTEPVOKLSPDGQKVYRTIANTDAAMPNGKVYLG 420
 Db 361 SGNYVETRPSIGSSKTTSPYGDKSTEPVOKLSPDGQKVYRTIANTDAAMPNGKVYLG 420
 Qy 421 VTKVDFSDQDKNETSTQTYOSKRNNGHVSQDSD1QLPPTTDELEYSHQLYNAB 480
 Db 421 VTKVDFSDQDKNETSTQTYOSKRNNGHVSQDSD1QLPPTTDELEYSHQLYNAB 480
 Qy 481 CFIMQDRGTTIPFTWTHRSVDFNTDAEKITQLPVKAYAASSGASIIECPGFTCGNL 540
 Db 481 CFIMQDRGTTIPFTWTHRSVDFNTDAEKITQLPVKAYAASSGASIIECPGFTCGNL 540
 Qy 541 LFLKESSNSIAKEKVTLNSAALQRYRVRVYASTTNLRFLQNSNNDFLYIYINKTMNK 600
 Db 541 LFLKESSNSIAKEKVTLNSAALQRYRVRVYASTTNLRFLQNSNNDFLYIYINKTMNK 600
 Qy 601 DDDLTQFDLATNSMNGSGDNELLIGASFSNEKUYIDKIEP1PVL 652
 Db 601 DDDLTQFDLATNSMNGSGDNELLIGASFSNEKUYIDKIEP1PVL 652

; Patent No. 6642030 ;
 GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brusock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kullesza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Romano, Charles
 TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 TITLE OF INVENTION: COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/427,769
 FILING DATE:
 CLASIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/993,722
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO-149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3106
 TELEX/FAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 98:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-427-769-98

Query March 100.0%; Score 3406; DB 4; Length 652;
 Best Local Similarity 100.0%; Pred. No. 6e-287;
 Matches 652; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MNPNRSEHTDTKTPNSELQTHNQYPLADNPNSTLEELNKFLRMTEDSSTEVDLNS 60
 Db 1 MNPNRSEHTDTKTPNSELQTHNQYPLADNPNSTLEELNKFLRMTEDSSTEVDLNS 60
 Qy 121 KIEBEYAKSKALARLQLGQNFDYVNAISWCKTPLSRKSQSQRDLRELFSAQESHRN 180
 Db 121 KIEBEYAKSKALARLQLGQNFDYVNAISWCKTPLSRKSQSQRDLRELFSAQESHRN 180
 Qy 181 SMPSFAVSKFEVLFPLTYAQANTHLLKKDAQVFGEWGKSYSEDVAEYFRQLKTQY 240
 Db 181 SMPSFAVSKFEVLFPLTYAQANTHLLKKDAQVFGEWGKSYSEDVAEYFRQLKTQY 240
 Qy 241 TDHCVNWTNVGLNRGSGTYDAWKFNFRRENTLTVDLIVLPFPDIRLYSKGVTEL 300
 Db 241 TDHCVNWTNVGLNRGSGTYDAWKFNFRRENTLTVDLIVLPFPDIRLYSKGVTEL 300
 Qy 301 TRIFTDFTFSNLTLQEQTPGTFSIENSIRKPHFLDYLQGIEFHTRIQGPGKDSFNYW 360
 Db 301 TRIFTDFTFSNLTLQEQTPGTFSIENSIRKPHFLDYLQGIEFHTRIQGPGKDSFNYW 360
 Qy 361 SGNYVETRPSIGSSKTTSPYGDKSTEPVOKLSPDGQKVYRTIANTDAAMPNGKVYLG 420
 Db 361 SGNYVETRPSIGSSKTTSPYGDKSTEPVOKLSPDGQKVYRTIANTDAAMPNGKVYLG 420
 Qy 421 VTKVDFSDQDKNETSTQTYOSKRNNGHVSQDSD1QLPPTTDELEYSHQLYNAB 480
 Db 421 VTKVDFSDQDKNETSTQTYOSKRNNGHVSQDSD1QLPPTTDELEYSHQLYNAB 480
 Qy 481 CFIMQDRGTTIPFTWTHRSVDFNTDAEKITQLPVKAYAASSGASIIECPGFTCGNL 540
 Db 481 CFIMQDRGTTIPFTWTHRSVDFNTDAEKITQLPVKAYAASSGASIIECPGFTCGNL 540
 Qy 541 LFLKESSNSIAKEKVTLNSAALQRYRVRVYASTTNLRFLQNSNNDFLYIYINKTMNK 600
 Db 541 LFLKESSNSIAKEKVTLNSAALQRYRVRVYASTTNLRFLQNSNNDFLYIYINKTMNK 600
 Qy 601 DDDLTQFDLATNSMNGSGDNELLIGASFSNEKUYIDKIEP1PVL 652
 Db 601 DDDLTQFDLATNSMNGSGDNELLIGASFSNEKUYIDKIEP1PVL 652

Db 301 TRDIFDPISLNTLQYGPFTLSIENIRKPHLFDLQGIEFPTRLQPGFKGDSFRNYW 36
 Qy 361 SGNYVETRPSIGSKITSPFGDKSTBPKLISFDGOKVRTIANTDVAAMPNGKTYLG 42
 Db 361 SGNYVETRPSIGSKITSPFGDKSTBPKLISFDQKVYRVTIANTDVAAMPNGKTYLG 42
 Qy 421 VTKVDSQYDDQKNETSTQYDSDKRNGHVSQADSIOLPPETDEPLEKAYSHQLYNAYE 48
 Db 421 VTKVDSQYDDQKNETSTQYDSDKRNGHVSQADSIOLPPETDEPLEKAYSHQLYNAYE 48
 Qy 481 CFLMDQRGTIPFPTWTHRSDFNTDAEKITOLPVKAYAASSGASLIEGGFTGCGNL 54
 Db 481 CPLMDQRGTIPFPTWTHRSDFNTDAEKITOLPVKAYAASSGASLIEGGFTGCGNL 54
 Qy 541 LPLKESSNSIAKFKTTLNSAALQRYRVRIRYTAATNNRLFVONSNNFLVYINKTMNK 60
 Db 541 LPLKESSNSIAKFKTTLNSAALQRYRVRIRYTAATNNRLFVONSNNFLVYINKTMNK 60
 Qy 601 DDDLTQTFDLATNSNMGSQGNELIGAESFSNEKIVIIDKIEFIPVQL 652
 Db 601 DDDLTQTFDLATNSNMGSQGNELIGAESFSNEKIVIIDKIEFIPVQL 652

RESULT 13

US-09-427-769-111

/ Sequence 111, Application US/09427769

/ Patent No. 6642030

/ GENERAL INFORMATION:

/ APPLICANT: English, Leigh H.

/ APPLICANT: Brusseock, Susan M.

/ APPLICANT: Malvar, Thomas M.

/ APPLICANT: Bryson, James W.

/ APPLICANT: Kulesza, Caroline A.

/ APPLICANT: Walters, Frederick S.

/ APPLICANT: Slatin, Stephen L.

/ APPLICANT: Von Tersch, Michael A.

/ APPLICANT: Romano, Charles

/ TITLE OF INVENTION: NUCLEIC ACID SEGMENTS ENCODING MODIFIED COLEOPTERAN-TOXIC CRYSTAL PROTEINS

/ NUMBER OF SEQUENCES: 113

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: Arnold, White & Durkee

/ STREET: P.O. Box 4433

/ CITY: Houston

/ STATE: Texas

/ COUNTRY: USA

/ ZIP: 77210

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Floppy disk

/ COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS

/ SOFTWARE: Patentn Release #1.0, version #1.30

CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/09/427,769

/ FILING DATE:

/ CLASSIFICATION:

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: 08/993,722

/ FILING DATE:

/ ATTORNEY/AGENT INFORMATION:

/ NAME: Kitchell, Barbara S.

/ REGISTRATION NUMBER: 33,928

/ REFERENCE/DOCKET NUMBER: MECO:149

TELECOMMUNICATION INFORMATION:

/ TELEPHONE: 512/418-3106

/ TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 111:

SEQUENCE CHARACTERISTICS:

LENGTH: 652 amino acids

TYPE: amino acid

STRANDEDNESS: linear

TOPOLOGY: linear

US-09-427-769-111
Query Match
 Best Local Similari
 Matches 652; 1
 Qy 1 MNPP
 Db 1 MNPP
 Qy 61 TVK
 Db 61 TVK
 Qy 121 KIE
 Db 121 KIE
 Qy 181 SMP
 Db 181 SMP
 Qy 241 TDH
 Db 241 TDH
 Qy 301 TRD
 Db 301 TRD
 Qy 361 SGN
 Db 361 SGN
 Qy 421 VTM
 Db 421 VTM
 Qy 481 CFP
 Db 481 CFP
 Qy 541 LFT
 Db 541 LFT
 Qy 601 DDI
 Db 601 DDI
 RESULT 14
 5187091-2
 ; Patent No. 5187091
 ; APPLICANT: ANNETTE C. JOHN
 ; TITLE OF INVENTION: ENCODING TOXIC NUMBER OF S CURRENT APP
 ; NUMBER OF SEQ ID NO: 2;
 ; LENGTH: 6
 5187091-2
Query Match
 Best Local Similari
 Matches 652; 1

Qy 61 TVKDAVGTGIVSVQIILGVGVPPAGALTSPYOSFLNTIWPSDADPKAFMAQVEVLIDK 120
 Db 61 TVKDAVGTGIVSVQIILGVGVPPAGALTSPYOSFLNTIWPSDADPKAFMAQVEVLIDK 120
 Qy 121 KIEEYAKSKALAAELQGLQNNFEDYVNAISWKKTPSLRSRKSQDRIRELFSQAESHFRN 180
 Db 121 KIEEYAKSKALAAELQGLQNNFEDYVNAISWKKTPSLRSRKSQDRIRELFSQAESHFRN 180
 Qy 181 SMPSFAVSKFEVFLPLTYAQAANTHLLKDQVFGEMYSSEDAEFYRQLKTQY 240
 Db 181 SMPSFAVSKFEVFLPLTYAQAANTHLLKDQVFGEMYSSEDAEFYRQLKTQY 240
 Qy 241 TDHCVNWNVNGNLRSSTYDAWKFRFREMTLTVDLIVLFPPFDLRYSKGVTEL 300
 Db 241 TDHCVNWNVNGNLRSSTYDAWKFRFREMTLTVDLIVLFPPFDLRYSKGVTEL 300
 Qy 301 TRDIFTDPISLNTLQEGPTFLSIENSIRKPHLFDFLYQPGYFGKDSFNYW 360
 Db 301 TRDIFTDPISLNTLQEGPTFLSIENSIRKPHLFDFLYQPGYFGKDSFNYW 360
 Qy 361 SGNYVTRPSIGSSKCLTSPEYGDKSTEPMQKLSPDGQKVRITANTDVAAMPNGKVYLG 420
 Db 361 SGNYVTRPSIGSSKCLTSPEYGDKSTEPMQKLSPDGQKVRITANTDVAAMPNGKVYLG 420
 Qy 421 VTKVDFPSQYDDOKNESTQYDSKRNGHVSQADSIDQLPPTTDEPLEKAYSHQNYAE 480
 Db 421 VTKVDFPSQYDDOKNESTQYDSKRNGHVSQADSIDQLPPTTDEPLEKAYSHQNYAE 480
 Qy 481 CFLMDQRRTIPFFTHRSYDFENTIDAETKITOLPVVKAYALSSGASITIEPGFTCGNL 540
 Db 481 CFLMDQRRTIPFFTHRSYDFENTIDAETKITOLPVVKAYALSSGASITIEPGFTCGNL 540
 Qy 541 LFLKESSNSIAFKVTTINSALLQRYVRVRYASTNLRLFQVNSNDFLTYINCTMNK 600
 Db 541 LFLKESSNSIAFKVTTINSALLQRYVRVRYASTNLRLFQVNSNDFLTYINCTMNK 600
 Qy 601 DDDLTQTFDLATTNSMGMGFSQCDKNELIGAESFVSNEKEVYDKEFIPVQL 652
 Db 601 DDDLTQTFDLATTNSMGMGFSQCDKNELIGAESFVSNEKEVYDKEFIPVQL 652
 RESULT 16
 US-08-996-441B-68
 ; Sequence 68, Application US/08996441B
 ; Patent No. 6023013
 ; GENERAL INFORMATION:
 ; APPLICANT: Engleish, Leigh H.
 ; APPLICANT: Brussock, Susan M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulesza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; APPLICANT: Charles
 ; TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/996,441B
 ; FILING DATE: 18-DEC-1997
 ; CLASIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 23,928
 ; REFERENCE/DOCKET NUMBER: MEKO-151
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3000
 ; TELEX/FAX: 512/474-7577
 ; INFORMATION FOR SEQ ID NO: 68:

Qy 1 MNPNNRSEHDTIKVTPNSELQTNHNOYPLADNPNSTLEELNYKEFLRTEDSSTEVLIDNS 60
 Db 1 MNPNNRSEHDTIKVTPNSELQTNHNOYPLADNPNSTLEELNYKEFLRTEDSSTEVLIDNS 60
 Qy 61 TVKDAVGTGIVSVQIILGVGVPPAGALTSPYOSFLNTIWPSDADPKAFMAQVEVLIDK 120
 Db 61 TVKDAVGTGIVSVQIILGVGVPPAGALTSPYOSFLNTIWPSDADPKAFMAQVEVLIDK 120
 Qy 121 KIEEYAKSKALAAELQGLQNNFEDYVNAISWKKTPSLRSRKSQDRIRELFSQAESHFRN 180
 Db 121 KIEEYAKSKALAAELQGLQNNFEDYVNAISWKKTPSLRSRKSQDRIRELFSQAESHFRN 180

SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-996-441B-68

Query Match 99.9%; Score 3402; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 1.3e-286; Indels 0; Gaps 0;
 Matches 651; Conservative 1; Mismatches 0;

Qy 1 MNPNRSEHTIKVTPNSELQTNHQYPLADNPACALTSFYQSFLNTIWPSPDADPKMAQEVLDK 120
 Db 1 MNPNRSEHTIKVTPNSELQTNHQYPLADNPACALTSFYQSFLNTIWPSPDADPKMAQEVLDK 120

Qy 61 TVKDAVGTTGTSVVGQILGVGVPPFAGALTSFYQSFLNTIWPSPDADPKMAQEVLDK 120
 Db 61 TVKDAVGTTGTSVVGQILGVGVPPFAGALTSFYQSFLNTIWPSPDADPKMAQEVLDK 120

Qy 121 KIEEYAKSKALAELQQLQNNEFDYNNALNSWKTKPLSLRSKSDRDLIELFSQAEHFRN 180
 Db 121 KIEEYAKSKALAELQQLQNNEFDYNNALNSWKTKPLSLRSKSDRQREFSQAEHFRN 180

Qy 181 SMPSFAVSKFVLFLPTYAQANTHLLLKKDAQVGEENGGYSSPDAEEFYHROLKLQQY 240
 Db 181 SMPSFAVSKFVLFLPTYAQANTHLLLKKDAQVGEENGGYSSPDAEEFYHROLKLQQY 240

Qy 241 TDHCVNWYNGVNGLRGSTDIAWKENRFREMTLTVLDIVLFFPDYDIRLYSGKVTEL 300
 Db 241 TDHCVNWYNGVNGLRGSTDIAWKENRFREMTLTVLDIVLFFPDYDIRLYSGKVTEL 300

Qy 301 TRDIFTDPISLNTLQBYGPFLSIEINSIRKPHLFDYLGQIEFHTRLQPYFGKDSFNW 360
 Db 301 TRDIFTDPISLNTLQBYGPFLSIEINSIRKPHLFYLQGEFHTRLQPYFGKDSFNW 360

Qy 361 SGNYVETRSPSIGSSKTKITSPYGDKSTEVPYOKLSDFGQKYRTIANTDVAAPNGKVKYLG 420
 Db 361 SGNYVETRSPSIGSSKTKITSPYGDKSTEVPYOKLSDFGQKYRTIANTDVAAPNGKVKYLG 420

Qy 421 VTKVDPSQYDDQKNESTQTYDKRNGHVSQAQSDQLPPTTDEPLEKAYSHOLNAYA 480
 Db 421 VTKVDPSQYDDQKNESTQTYDKRNGHVSQAQSDQLPPTTDEPLEKAYSHOLNAYA 480

Qy 481 CPMODERGTIPFFTWHRSYDFNTIDAEKITQLPVVAVALSSASIEGPGBTGGNL 540
 Db 481 CPMODERGTIPFFTWHRSYDFNTIDAEKITQLPVVAVALSSASIEGPGBTGGNL 540

Qy 541 LPLKESSNSIAKFKVTLNSAALLQYRVRIRYASTTNRLFVQNSNDFLVYINKTMNK 600
 Db 541 LPLKESSNSIAKFKVTLNSAALLQYRVRIRYASTTNRLFVQNSNDFLVYINKTMNK 600

Qy 601 DDPLTYQTFLATTNSNMGFSQDKNEELIGAESFSNEKITYDKIBFIPVOL 652
 Db 601 DDPLTYQTFLATTNSNMGFSQDKNEELIGAESFSNEKITYDKIBFIPVOL 652

RESULT 17
 US-08-993-722A-68 Application US/08993722A
 Patent No. 6060594

GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brusock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kuleza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.

APPLICANT: Romano, Charles
 TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 NUMBER OF SEQUENCES: 113

RESULT 18
US-08-993-170A-68
Sequence 68, Application US/08993170A
Patent No. 6063397
GENERAL INFORMATION:
APPLICANT: English, Leigh H.
APPLICANT: Bruscock, Susan M.
APPLICANT: Malvar, Thomas M.
APPLICANT: Bryson, James W.
APPLICANT: Kulesza, Caroline A.
APPLICANT: Walters, Frederick S.
APPLICANT: Slatin, Stephen L.
APPLICANT: Von Tersch, Michael A.
TITLE OF INVENTION: POLYPEPTIDE COMPOSITIONS TOXIC TO COLEOPTERAN INSECTS
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.3.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993.170A
FILING DATE: 18-DEC-1997
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33, 928
REFERENCE DOCKET NUMBER: MECCO:002

TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-1000
TELEFAX: 512/474-7577

SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-993-170A-68

Query Match 99.9%; Score 3402; DB 3; Length 652;
Best Local Similarity 99.8%; Pred. No. 1,3e-286;
Matches 651; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MNPNNRSEDTIKVTPNSLQTQNHNQYPLADPNSTLBEINYKEFLMTEDSSTEVLDS 60
Db 1 MNPNNRSEDTIKVTPNSLQTQNHNQYPLADPNSTLBEINYKEFLMTEDSSTEVLDS 60
Qy 61 TVKDAVGTCISVQGQILGVGVPPAGALTFSYOSFLNTIWPSPADPKMAQEVLLDK 120
Db 61 TVKDAVGTCISVQGQILGVGVPPAGALTFSYOSFLNTIWPSPADPKMAQEVLLDK 120
Qy 121 KIEEYAKSKALABEQLQGLNINFEDVNAISWKTKPLSLRSKSQRDRIRELFSAESFRN 180
Db 121 KIEEYAKSKALABEQLQGLNINFEDVNAISWKTKPLSLRSKSQRDRIRELFSAESFRN 180
Qy 181 SMPSFAVSKFEVLFLPFTAQAANTHLLIKDQAQVGEEMGYSSVEDAEFYHQLTQQY 240
Db 181 SMPSFAVSKFEVLFLPFTAQAANTHLLIKDQAQVGEEMGYSSVEDAEFYHQLTQQY 240

241 TDHCVNWNVGLNGRLGSTDYDAVVKFNFRREMTLTVLDLIVLFYDYLRYSKGVKTEL 300
Db 241 TDHCVNWNVGLNGRLGSTDYDAVVKFNFRREMTLTVLDLIVLFYDYLRYSKGVKTEL 300
Qy 301 TRDIFTDPFLPSINTLQEYQGPTFLSIENSIRKPHLFYDLOGIEPTIRLQGPFYGSKDSFNYW 360
Db 301 TRDIFTDPFLPSINTLQEYQGPTFLSIENSIRKPHLFYDLOGIEPTIRLQGPFYGSKDSFNYW 360
Qy 361 SGNYVETRSPSIGSKTTSPFYGDKSTERPVQLSFDGQKVYRTANTDVAAWNGKVYLG 420
Db 361 SGNYVETRSPSIGSKTTSPFYGDKSTERPVQLSFDGQKVYRTANTDVAAWNGKVYLG 420
Qy 421 VTKVDFSQYDDQNETSTQYDSKRNNHVSACDSIDOLPPETDEPLEKAYSHQLNYAB 480
Db 421 VTKVDFSQYDDQNETSTQYDSKRNNHVSACDSIDOLPPETDEPLEKAYSHQLNYAB 480
Qy 481 CFLMDQRRTIPFFTWHSVDFNTIDAEEKTOLPVVYKAYALSGAS1IEGPGFTGGNL 540
Db 481 CFLMDQRRTIPFFTWHSVDFNTIDAEEKTOLPVVYKAYALSGAS1IEGPGFTGGNL 540
Qy 541 LFELKBSNSIAKEPKVTLNSAALLQYRVRIVASTNLRFLYQNSNDFLVIVTKTKN 600
Db 541 LFELKBSNSIAKEPKVTLNSAALLQYRVRIVASTNLRFLYQNSNDFLVIVTKTKN 600
Qy 601 DDDLTQFDLATTNSANGFSGDNELIGABFSVSNEKYIDKIEF1PVQL 652
Db 601 DDDLTQFDLATTNSANGFSGDNELIGABFSVSNEKYIDKIEF1PVQL 652

RESULT 19
US-08-993-775B-68
; Sequence 68, Application US/08993775B
; Patent No. 6077824
; GENERAL INFORMATION:
; APPLICANT: English, Leigh H.
; APPLICANT: Bruscock, Susan M.
; APPLICANT: Malvar, Thomas M.
; APPLICANT: Bryson, James W.
; APPLICANT: Kulesza, Caroline A.
; APPLICANT: Walters, Frederick S.
; APPLICANT: Slatin, Stephen L.
; APPLICANT: Von Tersch, Michael A.
; TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF DELTA-ENDOTOXINS AGAINST INSECT PESTS
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.3.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/993.775B
; FILING DATE: 18-DEC-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Kitchell, Barbara S.
; REGISTRATION NUMBER: 33, 928
; REFERENCE DOCKET NUMBER: MECCO:150
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 652 amino acids
; TYPE: amino acid

TOPOLOGY: linear
 MOLECULE TYPE: Protein
 US-08-993-775B-68

Query Match 99.9%; Score 3402; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 1..3e-286;
 Matches 651; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MNPNNRSEHTDKVNTSELQTNHNOYPLADNPNTLEENYKEFLRMTEDSSTEVLDS 60
 Db 1 MNPNNRSEHTDKVNTSELQTNHNOYPLADNPNTLEENYKEFLRMTEDSSTEVLDS 60

Qy 61 TYKDAVGTGISTVGQIQLGVGYPPAGALTSPYQSTNTPSDADPMWKAFAQVEYLIDK 120
 Db 61 TYKDAVGTGISTVGQIQLGVGYPPAGALTSPYQSTNTPSDADPMWKAFAQVEYLIDK 120

Qy 121 KIEEYAKSKAALAEQGLQNPFEDYVNAWNKTKPLSLRSKRSQRDRIFLFSQAESHEFN 180
 Db 121 KIEEYAKSKAALAEQGLQNPFEDYVNAWNKTKPLSLRSKRSQRDRIFLFSQAESHEFN 180

Qy 181 SMSPFATSKFEVFLPLTYQAANTHLLKDQAQVFGEWGSSEDVAEFTHRLKLTQY 240
 Db 181 SMSPFATSKFEVFLPLTYQAANTHLLKDQAQVFGEWGSSEDVAEFTHRLKLTQY 240

Qy 241 TDHCVNVTNVNGLNLRSSTYDAWKENFRREMTLTVLDLIVLFPPFYDILYSKGCKVTEL 300
 Db 241 TDHCVNVTNVNGLNLRSSTYDAWKENFRREMTLTVLDLIVLFPPFYDILYSKGCKVTEL 300

Qy 301 TRDIFTDPFSNTLOEYCPTEFLSIERSIRKPHFLDYLOGLEFHFTLQPGYFGKDSFNYW 360
 Db 301 TRDIFTDPFSNTLOEYCPTEFLSIERSIRKPHFLDYLOGLEFHFTLRLPGFGKDSFNYW 360

Qy 361 SGNYVETPSIGSSKTITSFYGDKSTEPVOKLSFDCQKVRTRIANTDAWPNGKVKYLG 420
 Db 361 SGNYVETPSIGSSKTITSFYGDKSTEPVOKLSFDCQKVRTRIANTDAWPNGKVKYLG 420

Qy 421 VTKYDFSQDDQNETSTQTYDSKRNNHVSAGDTSIQLPPETTDEPLEKAYSHQNLNYES 480
 Db 421 VTKYDFSQDDQNETSTQTYDSKRNNHVSAGDTSIQLPPETTDEPLEKAYSHQNLNYES 480

Qy 481 CFLMDQRRTGTTIPFTWHSVDPENTIDAEKITQLPVVKAYALSGSASIISGPFGTGGNL 540
 Db 481 CFLMDQRRTGTTIPFTWHSVDPENTIDAEKITQLPVVKAYALSGSASIISGPFGTGGNL 540

Qy 541 LFLKESNSNIAKFKVTLNEAALLORYRYRIRYASTTNERLFLQNSNDFLTYINKTMNK 600
 Db 541 LFLKESNSNIAKFKVTLNEAALLORYRYRIRYASTTNERLFLQNSNDFLTYINKTMNK 600

Qy 601 DDDLYTQFDLATNSNMCGSGDKMELIGAESFSNEKIXYDKEFIPVQL 652
 Db 601 DDDLYTQFDLATNSNMCGSGDKMELIGAESFSNEKIXYDKEFIPVQL 652

Qy 652 -
 Db 652 -

RESULT 20
 US-09-427-770-68
 ; Sequence 68, Application US/09427770
 ; Patent No. 6620988

GENERAL INFORMATION:
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Bruscock, Susan M.
 ; APPLICANT: Malver, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulesza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Terich, Michael A.
 ; APPLICANT: Romano, Charles
 ; TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 ; TITLE OF INVENTION: COLBOPTERAN-TOXIC CRYSTAL PROTEINS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433

CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/427,770
 FILING DATE:
 PRIORITY DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/993,722
 FILING DATE: 18-DEC-1997
 ATTORNEY/AGENT/INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3106
 TELEX/FAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 68:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPLOGY: linear
 MOLECULE TYPE: protein
 US-09-427-770-68

Query Match 99.9%; Score 3402; DB 4; Length 652;
 Best Local Similarity 99.8%; Pred. No. 1..3e-286;
 Matches 651; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MNPNNRSEHTDKVNTSELQTNHNOYPLADNPNTLEENYKEFLRMTEDSSTEVLDS 60
 Qy 1 MNPNNRSEHTDKVNTSELQTNHNOYPLADNPNTLEENYKEFLRMTEDSSTEVLDS 60

Db 61 TVKDAVGTGISTVGQIQLGVGYPPAGALTSPYQSTNTPSDADPMWKAFAQVEYLIDK 120
 Db 61 TVKDAVGTGISTVGQIQLGVGYPPAGALTSPYQSTNTPSDADPMWKAFAQVEYLIDK 120

Db 121 KIEEYAKSKAALAEQGLQNPFEDYVNAWNKTKPLSLRSKRSQRDRIFLFSQAESHEFN 180
 Db 121 KIEEYAKSKAALAEQGLQNPFEDYVNAWNKTKPLSLRSKRSQRDRIFLFSQAESHEFN 180

Db 181 SMSPFATSKFEVFLPLTYQAANTHLLKDQAQVFGEWGSSEDVAEFTHRLKLTQY 240
 Db 181 SMSPFATSKFEVFLPLTYQAANTHLLKDQAQVFGEWGSSEDVAEFTHRLKLTQY 240

Db 241 TDHCVNVTNVNGLNLRSSTYDAWKENFRREMTLTVLDLIVLFPPFYDILYSKGCKVTEL 300
 Db 241 TDHCVNVTNVNGLNLRSSTYDAWKENFRREMTLTVLDLIVLFPPFYDILYSKGCKVTEL 300

Db 301 TRDIFTDPFSNTLOEYCPTEFLSIERSIRKPHFLDYLOGLEFHFTLQPGYFGKDSFNYW 360
 Db 301 TRDIFTDPFSNTLOEYCPTEFLSIERSIRKPHFLDYLOGLEFHFTLRLPGYFGKDSFNYW 360

Db 361 SGNYVETPSIGSSKTITSFYGDKSTEPVOKLSFDCQKVRTRIANTDAWPNGKVKYLG 420
 Db 361 SGNYVETPSIGSSKTITSFYGDKSTEPVOKLSFDCQKVRTRIANTDAWPNGKVKYLG 420

Db 421 VTKYDFSQDDQNETSTQTYDSKRNNHVSAGDTSIQLPPETTDEPLEKAYSHQNLNYES 480
 Db 421 VTKYDFSQDDQNETSTQTYDSKRNNHVSAGDTSIQLPPETTDEPLEKAYSHQNLNYES 480

Db 481 CFLMDQRRTGTTIPFTWHSVDPENTIDAEKITQLPVVKAYALSGSASIISGPFGTGGNL 540
 Db 481 CFLMDQRRTGTTIPFTWHSVDPENTIDAEKITQLPVVKAYALSGSASIISGPFGTGGNL 540

Db 541 LFLKESNSNIAKFKVTLNEAALLORYRYRIRYASTTNERLFLQNSNDFLTYINKTMNK 600
 Db 541 LFLKESNSNIAKFKVTLNEAALLORYRYRIRYASTTNERLFLQNSNDFLTYINKTMNK 600

Db 601 DDDLYTQFDLATNSNMCGSGDKMELIGAESFSNEKIXYDKEFIPVQL 652
 Db 601 DDDLYTQFDLATNSNMCGSGDKMELIGAESFSNEKIXYDKEFIPVQL 652

Db 652 -
 Db 652 -

Qy 241 TDHCVNVTNVNGLNLRSSTYDAWKENFRREMTLTVLDLIVLFPPFYDILYSKGCKVTEL 300
 Qy 241 TDHCVNVTNVNGLNLRSSTYDAWKENFRREMTLTVLDLIVLFPPFYDILYSKGCKVTEL 300

Qy 301 TRDIFTDPFSNTLOEYCPTEFLSIERSIRKPHFLDYLOGLEFHFTLQPGYFGKDSFNYW 360
 Qy 301 TRDIFTDPFSNTLOEYCPTEFLSIERSIRKPHFLDYLOGLEFHFTLRLPGYFGKDSFNYW 360

Db 361 SGNYVETPSIGSSKTITSFYGDKSTEPVOKLSFDCQKVRTRIANTDAWPNGKVKYLG 420
 Db 361 SGNYVETPSIGSSKTITSFYGDKSTEPVOKLSFDCQKVRTRIANTDAWPNGKVKYLG 420

Db 421 VTKYDFSQDDQNETSTQTYDSKRNNHVSAGDTSIQLPPETTDEPLEKAYSHQNLNYES 480
 Db 421 VTKYDFSQDDQNETSTQTYDSKRNNHVSAGDTSIQLPPETTDEPLEKAYSHQNLNYES 480

Db 481 CFLMDQRRTGTTIPFTWHSVDPENTIDAEKITQLPVVKAYALSGSASIISGPFGTGGNL 540
 Db 481 CFLMDQRRTGTTIPFTWHSVDPENTIDAEKITQLPVVKAYALSGSASIISGPFGTGGNL 540

Db 541 LFKEKSSNSIAKFKVTLNEAALLORYRYRIRYASTTNERLFLQNSNDFLTYINKTMNK 600
 Qy 541 LFKEKSSNSIAKFKVTLNEAALLORYRYRIRYASTTNERLFLQNSNDFLTYINKTMNK 600

541 LFLKESSNSIAKFVTLNSAALLQYRVRIRYASTNLRLVQNSNSNDFLIVYINTMK 600
 Db Qy 601 DDDLTQTFDLATTNSMNGFSGDKNEELIGAESFSNEKIVDKELEFPIVQL 652
 Db Qy 601 DDDLTQTFDLATTNSMNGFSGDKNEELIGAESFSNEKIVDKELEFPIVQL 652

RESULT 21
 US-09-427-769-68 ; Sequence 68, Application US/09427769
 ; Patent No. 6642030
 GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brussock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kulesza, Caroline A.
 APPLICANT: Walter, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Romano, Charles
 TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/427,769
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/993,722
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3105
 TELEFAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 68:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-427-769-68

Query Match 99.9%; Score 3402; DB 4; Length 652;
 Best Local Similarity 99.8%; Pred. No. 1.3e-286;
 Matches 651; Conservative 0; Indels 0; Gaps 0;

1 MNPNRSEHDTIKTVPNSLQTNHQYPLADNPNSTLLEINKEFIRMEDDSSTEVLDS 60
 1 MNPNRSEHDTIKTVPNSLQTNHQYPLADNPNSTLLEINKEFIRMEDDSSTEVLDS 60

Qy 61 TVKDAYGTGIVSIVGQILGVWGPFGALTSYQSFINTIWSDAPWKMAQEVLIDK 120
 Db Qy 61 TVKDAYGTGIVSIVGQILGVWGPFGALTSYQSFINTIWSDAPWKMAQEVLIDK 120

Db Qy 121 KIEEYAKSKALAEQLOLQNONNEDYVNAISMSKKTPSLRSKRSQRIRLFQSQASHFRN 180
 Db Qy 121 KIEEYAKSKALAEQLOLQNONNEDYVNAISMSKKTPSLRSKRSQRIRLFQSQASHFRN 180

181 SMPSPAVSKFEVLFLPTYAQQANTHILLIKDAQVGEWGSSEDAEYHRQLKTQQY 240
 181 SMPSPAVSKFEVLFLPTYAQQANTHILLIKDAQVGEWGSSEDAEYHRQLKTQQY 240
 241 TDHCNWNWYGLNRGSTDAWVCFNRFRREMUTLVLDLIVFDFYDILYSKGVKTEL 300
 241 TDHCNWNWYGLNRGSTDAWVCFNRFRREMUTLVLDLIVFDFYDILYSKGVKTEL 300
 301 TRDIFDPISLNTQIYEYGTPLSENSIRKPHLDYLOG1EFHFLRQPGYFGKDFNYW 360
 301 TRDIFDPISLNTQIYEYGTPLSENSIRKPHLDYLOG1EFHFLRQPGYFGKDFNYW 360
 361 SGNYETRPSTGSSKTTSPYQKLSDPQKVRTIANTDVAWPNGKVLG 420
 361 SGNYETRPSTGSSKTTSPYQKLSDPQKVRTIANTDVAWPNGKVLG 420
 421 VTKUDQSQYDQKNETSTQYDSKRNNGHVSQAQDIDQLPPTTEDEPLEKAYSHQLYAE 480
 421 VTKUDQSQYDQKNETSTQYDSKRNNGHVSQAQDIDQLPPTTEDEPLEKAYSHQLYAE 480
 481 CFLMDQDRGTIPFFWTHRSDFNTIDAERKITQPVKAYALSSGAS1LBGPGTGGNL 540
 481 CFLMDQDRGTIPFFWTHRSDFNTIDAERKITQPVKAYALSSGAS1LBGPGTGGNL 540
 541 LFLKESSNSIAKFVTLNSAALLQYRVRIRYASTNLRLFVQNSNDFLIVYINTMK 600
 541 LFLKESSNSIAKFVTLNSAALLQYRVRIRYASTNLRLFVQNSNDFLIVYINTMK 600
 601 DDDLYQTFLATTSNMGSGDNNELIGAESFSNEKIVDKELEFPIVQL 652
 601 DDDLYQTFLATTSNMGSGDNNELIGAESFSNEKIVDKELEFPIVQL 652

RESULT 22 ; Sequence 14, Application US/08996441B
 ; Patient No. 6023013
 GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brussock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kulesza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Staton, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Romano, Charles
 TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P O Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,441B
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/993,722
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3105
 TELEFAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 68:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

Query Match 99.9%; Score 3402; DB 4; Length 652;
 Best Local Similarity 99.8%; Pred. No. 1.3e-286;
 Matches 651; Conservative 0; Indels 0; Gaps 0;

1 MNPNRSEHDTIKTVPNSLQTNHQYPLADNPNSTLLEINKEFIRMEDDSSTEVLDS 60
 1 MNPNRSEHDTIKTVPNSLQTNHQYPLADNPNSTLLEINKEFIRMEDDSSTEVLDS 60

Qy 61 TVKDAYGTGIVSIVGQILGVWGPFGALTSYQSFINTIWSDAPWKMAQEVLIDK 120
 Db Qy 61 TVKDAYGTGIVSIVGQILGVWGPFGALTSYQSFINTIWSDAPWKMAQEVLIDK 120

Db Qy 121 KIEEYAKSKALAEQLOLQNONNEDYVNAISMSKKTPSLRSKRSQRIRLFQSQASHFRN 180
 Db Qy 121 KIEEYAKSKALAEQLOLQNONNEDYVNAISMSKKTPSLRSKRSQRIRLFQSQASHFRN 180

ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:151
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/474-7577
 TELEFAX: 512/474-3000

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-996-441B-14

Query Match Similarity 99.9%; Score 3401; DB 3; Length 652;
Best Local Similarity 99.8%; Pred. No. 1.e-286;
Matches 651; Conservative 0; Gaps 0;
Mismatches 1; Indels 0;

1 MNPNNRSEHDTIKVTNPSELQTNHNOYPLAQNPNSTLEELNYKEPLRMTDSSTEVLNDS 60
1 MNPNNRSEHDTIKVTNPSELQTNHNOYPLAQNPNSTLEELNYKEPLRMTDSSTEVLNDS 60

61 TVKDAVGIGISVQGQILGVGVYPAGALTSPYQSFUNTIWPSDADPKMAQEVLINK 120
61 TVKDAVGIGISVQGQILGVGVYPAGALTSPYQSFUNTIWPSDADPKMAQEVLINK 120

121 KIEEYAKSKALAEQFLQLQNNFEDYVNAWNWKCTPLSLRSRSQRDIREFSOAASHFRN 180
121 KIEEYAKSKALAEQFLQLQNNFEDYVNAWNWKCTPLSLRSRSQRDIREFSOAASHFRN 180

181 SMPSFAVSKPEVLFPLPTIAQANTHLLKKDAQVFGEWGYSSSEDVAEFYHQRLKLTQY 240
181 SMPSFAVSKPEVLFPLPTIAQANTHLLKKDAQVFGEWGYSSSEDVAEFYHQRLKLTQY 240

241 TDHCVNWTNGLNRGSGTYDAWKENFRREMTLTVLDLIVLFPFYDIRLYSKGKTEL 300
241 TDHCVNWTNGLNRGSGTYDAWKENFRREMTLTVLDLIVLFPFYDIRLYSKGKTEL 300

301 TRDIFTDPFLSNTLQEQTPFTLISIERSRKPHFLDYLQGIFGKOSFNY 360
301 TRDIFTDPFLSNTLQEQTPFTLISIERSRKPHFLDYLQGIFGKOSFNY 360

361 SGNYVETRPSIGSSKTTSPYGDKSTEVKQLSFDGKVRVTIANTDAVAMPNGKVYLG 420
361 SGNYVETRPSIGSSKTTSPYGDKSTEVKQLSFDGKVRVTIANTDAVAMPNGKVYLG 420

421 VTKVDFSQYDDQNETSTQYDTSKRNNGHVSAQSDSIDOLQPETTDEPLEKAYSHQNYAE 480
421 VTKVDFSQYDDQNETSTQYDTSKRNNGHVSAQSDSIDOLQPETTDEPLEKAYSHQNYAE 480

481 CFLMDQRGTGIPFPTWTHASDFENTIDAKFTKLPVYKAYAASSGASILEGGFTCGNL 540
481 CFLMDQRGTGIPFPTWTHASDFENTIDAKFTKLPVYKAYAASSGASILEGGFTCGNL 540

541 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
541 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

RESULT 23
US-08-993-722A-14
Sequence 14, Application US/08993722A
Patent No. 600594

GENERAL INFORMATION:
APPLICANT: English, Leigh H.
APPLICANT: Brusock, Susan M.
APPLICANT: Malvar, Thomas M.
APPLICANT: Bryson, James W.
APPLICANT: Kulesza, Caroline A.
APPLICANT: Walters, Frederick S.
APPLICANT: Slatin, Stephen L.
APPLICANT: Von Tersch, Michael A.
APPLICANT: Romano, Charles
TITLE OF INVENTION: NUCLEIC ACID SEGMENTS ENCODING MODIFIED
TITLE OF INVENTION: COLBOPTERAN-TOXIC CRYSTAL PROTEINS

NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0., Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,722A
FILING DATE: 18-DEC-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECO:149
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3106
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-993-722A-14

Query Match 99.9%; Score 3401; DB 3; Length 652;
Best Local Similarity 99.8%; Pred. No. 1.e-286;
Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNNRSEHDTIKVTNPSELQTNHNOYPLAQNPNSTLEELNYKEPLRMTDSSTEVLNDS 60
Db 1 MNPNNRSEHDTIKVTNPSELQTNHNOYPLAQNPNSTLEELNYKEPLRMTDSSTEVLNDS 60

Qy 61 TVKDAVGIGISVQGQILGVGVYPAGALTSPYQSFUNTIWPSDADPKMAQEVLINK 120
Db 61 TVKDAVGIGISVQGQILGVGVYPAGALTSPYQSFUNTIWPSDADPKMAQEVLINK 120

Qy 121 KIEEYAKSKALAEQFLQLQNNFEDYVNAWNWKCTPLSLRSRSQRDIREFSOAASHFRN 180
Db 121 KIEEYAKSKALAEQFLQLQNNFEDYVNAWNWKCTPLSLRSRSQRDIREFSOAASHFRN 180

Qy 181 SMPSFAVSKPEVLFPLPTIAQANTHLLKKDAQVFGEWGYSSSEDVAEFYHQRLKLTQY 240
Db 181 SMPSFAVSKPEVLFPLPTIAQANTHLLKKDAQVFGEWGYSSSEDVAEFYHQRLKLTQY 240

Qy 241 TDHCVNWTNGLNRGSGTYDAWKENFRREMTLTVLDLIVLFPFYDIRLYSKGKTEL 300
Db 241 TDHCVNWTNGLNRGSGTYDAWKENFRREMTLTVLDLIVLFPFYDIRLYSKGKTEL 300

Qy 301 TRDIFTDPFLSNTLQEQTPFTLISIERSRKPHFLDYLQGIFGKOSFNY 360
Db 301 TRDIFTDPFLSNTLQEQTPFTLISIERSRKPHFLDYLQGIFGKOSFNY 360

Qy 361 SGNYVETRPSIGSSKTTSPYGDKSTEVKQLSFDGKVRVTIANTDAVAMPNGKVYLG 420
Db 361 SGNYVETRPSIGSSKTTSPYGDKSTEVKQLSFDGKVRVTIANTDAVAMPNGKVYLG 420

Qy 421 VTKVDFSQYDDQNETSTQYDTSKRNNGHVSAQSDSIDOLQPETTDEPLEKAYSHQNYAE 480
Db 421 VTKVDFSQYDDQNETSTQYDTSKRNNGHVSAQSDSIDOLQPETTDEPLEKAYSHQNYAE 480

Qy 481 CFLMDQRGTGIPFPTWTHASDFENTIDAKFTKLPVYKAYAASSGASILEGGFTCGNL 540
Db 481 CFLMDQRGTGIPFPTWTHASDFENTIDAKFTKLPVYKAYAASSGASILEGGFTCGNL 540

Qy 541 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 541 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1201 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1201 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1301 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1301 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1401 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1401 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1501 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1501 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1551 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1551 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 1901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 1901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 1951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 1951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2201 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2201 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2301 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2301 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2401 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2401 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2501 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2501 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2551 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2551 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 2901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 2901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 2951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 2951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3201 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3201 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3301 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3301 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3401 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3401 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3501 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3501 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3551 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3551 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3601 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3701 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3801 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 3901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 3901 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 3951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 3951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 4001 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 4051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652
Db 4101 DDDLTQTFDIAITNSNMGFSDKNEELIGAESFSVNEKIVYDKIEFIPVQL 652

Qy 4151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4201 VTKVDFSYDDQNETSTQYDSKRNGHVSQDSQDLSQDLPETTDEPLEKAYSHQNYAE 480
Db 4201 VTKVDFSYDDQNETSTQYDSKRNGHVSQDSQDLSQDLPETTDEPLEKAYSHQNYAE 480

Qy 4251 CFLMDQRGTIPFPTWHTSDFNTDAEKITOLVYKAYALSSASILEGGFTGKGNL 540
Db 4251 CFLMDQRGTIPFPTWHTSDFNTDAEKITOLVYKAYALSSASILEGGFTGKGNL 540

Qy 4301 SGNYVTRPSIGSSKTTSPYGDKSTEQYQKLSFGQKTYRTIANTDVAAWPNGKVYLG 420
Db 4301 SGNYVTRPSIGSSKTTSPYGDKSTEQYQKLSFGQKTYRTIANTDVAAWPNGKVYLG 420

Qy 4351 SGNYVTRPSIGSSKTTSPYGDKSTEQYQKLSFGQKTYRTIANTDVAAWPNGKVYLG 420
Db 4351 SGNYVTRPSIGSSKTTSPYGDKSTEQYQKLSFGQKTYRTIANTDVAAWPNGKVYLG 420

Qy 4401 CFLMDQRGTIPFPTWHTSDFNTDAEKITOLVYKAYALSSASILEGGFTGKGNL 540
Db 4401 CFLMDQRGTIPFPTWHTSDFNTDAEKITOLVYKAYALSSASILEGGFTGKGNL 540

Qy 4451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4501 SGNYVTRPSIGSSKTTSPYGDKSTEQYQKLSFGQKTYRTIANTDVAAWPNGKVYLG 420
Db 4501 SGNYVTRPSIGSSKTTSPYGDKSTEQYQKLSFGQKTYRTIANTDVAAWPNGKVYLG 420

Qy 4551 CFLMDQRGTIPFPTWHTSDFNTDAEKITOLVYKAYALSSASILEGGFTGKGNL 540
Db 4551 CFLMDQRGTIPFPTWHTSDFNTDAEKITOLVYKAYALSSASILEGGFTGKGNL 540

Qy 4601 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4601 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4651 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4701 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4701 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4751 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4801 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4801 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4851 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4901 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4901 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 4951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 4951 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5001 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5001 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5051 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5101 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5101 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5151 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5201 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5201 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5251 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5301 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5301 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5351 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5401 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5401 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600
Db 5451 LFLKESSNSIAKFVYTLNSSLORYRIRRASYTNNLFLVQNSNNDFLVYIYKTMNK 600

Qy 5501 LFL

RESULT 24
 US-08-993-170A-14
 Sequence 14: Application US/08993170A
 Patent No. 6063597
 GENERAL INFORMATION
 APPLICANT: English, Leigh H.
 APPLICANT: Bruseck, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kulesza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 TITLE OF INVENTION: POLYPEPTIDE COMPOSITIONS TOXIC TO
 TITLE OF INVENTION: COLEOPTERAN INSECTS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993,170A
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO: 002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-993-170A-14

Query Match 99.9%; Score 3401; DB 3; Length 652;
 Best Local Similarity 99.8%; Prod. No. 1.6e-286;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRSEHDTIKTPNSLQINHQYPLADNPNSTEELNYKEFLMTEDSSTEVDNS 60
 Db 1 MNPNRSEHDTIKTPNSLQINHQYPLADNPNSTEELNYKEFLMTEDSSTEVDNS 60

Qy 61 TVKDAVGTSVQGILGVGPAGALTSPQSLATIWPSPADPKFMQVEVLIDK 120
 Db 61 TVKDAVGTSVQGILGVGPAGALTSPQSLATIWPSPADPKFMQVEVLIDK 120

Qy 121 KIEYAKSKALAELQGLQNNFEDYYNALSWKTKTPLSLRSRSQDRIRELFSQAESHPRN 180
 Db 121 KIEYAKSKALAELQGLQNNFEDYYNALSWKTKTPLSLRSRSQDRIRELFSQAESHPRN 180

Qy 181 SMPSFAVKPEVFLPFTAQANTHLLIKDAGVFBWGYSSVEDAEFYHQLKUQQY 240
 Db 181 SMPSFAVKPEVFLPFTAQANTHLLIKDAGVFBWGYSSVEDAEFYHQLKUQQY 240

Qy 241 TDICVNVNNGLNRGSTDYDAWKFNFRRENTLVLDLIVFPFYDIRLYSKGVKTEL 300
 Db 241 TDICVNVNNGLNRGSTDYDAWKFNFRRENTLVLDLIVFPFYDNLYSKGVKTEL 300

Qy 301 TRDIFTPIFSNLQEQYQPTFLSIENSIRKPHFLDYLQGIEFTLRLOGYFGKDSFNYW 360
 Db 301 TRDIFTPIFSNLQEQYQPTFLSIENSIRKPHFLDYLQGIEFTLRLOGYFGKDSFNYW 360

Qy 361 SGNYETRPSIGSSKTTSPFGDKSTEPVQKLISFGDKVYRVTANTDVAWNGKVYLG 420
 Db 361 SGNYETRPSIGSSKTTSPFGDKSTEPVQKLISFGDKVYRVTANTDVAWNGKVYLG 420

Qy 421 VTKVDFSYODDQRNETSTQYDSKRNNGHVSACDSIDOLPPETTDEPLEKAYSHOLNAYE 480
 Db 421 VTKVDFSYODDQRNETSTQYDSKRNNGHVSACDSIDOLPPETTDEPLEKAYSHOLNAYE 480

Qy 481 CFIMQDRRTIPPFTHRSVDFNTIDAETKOLPVKAYALSGASILIEGPGFTGGNL 540
 Db 481 CFIMQDRRTIPPFTHRSVDFNTIDAETKOLPVKAYALSGASILIEGPGFTGGNL 540

Qy 541 LFKEKSENNSIAFKVTNSAALLQRYVRVIRYASTNIRLFQNSNDFLVYINKTMNK 600
 Db 541 LFKEKSENNSIAFKVTNSAALLQRYVRVIRYASTNIRLFQNSNDFLVYINKTMNK 600

Qy 601 DDDLTYQFDLATTNSNNGFSGDKNELLIGAESFVSNEKIVIDKIEFIPVQL 652
 Db 601 DDDLTYQFDLATTNSNNGFSGDKNELLIGAESFVSNEKIVIDKIEFIPVQL 652

RESULT 25
 US-08-993-775B-14

/ Sequence 14 Application US/08993775B
 / Patent No. 6077824
 / GENERAL INFORMATION:
 / APPLICANT: English, Leigh H.
 / APPLICANT: Bruseck, Susan M.
 / APPLICANT: Malvar, Thomas M.
 / APPLICANT: Bryson, James W.
 / APPLICANT: Kulesza, Caroline A.
 / APPLICANT: Walters, Frederick S.
 / APPLICANT: Slatin, Stephen L.
 / APPLICANT: Von Tersch, Michael A.
 / TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF
 / DELTA-ENDOTOXINS AGAINST INSECT PESTS
 / NUMBER OF SEQUENCES: 113
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Arnold, White & Durkee
 / STREET: P.O. Box 4433
 / CITY: Houston
 / STATE: Texas
 / COUNTRY: USA
 / ZIP: 77210
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.30
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/993,775B
 / FILING DATE: 18-DEC-1997
 / CLASSIFICATION: 514
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Kitcheil, Barbara S.
 / REGISTRATION NUMBER: 33,928
 / REFERENCE/DOCKET NUMBER: MECO:150
 / TELECOMMUNICATION INFORMATION:
 / TELEFAX: 512/474-7577
 / INFORMATION FOR SEQ ID NO: 14:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 652 amino acids
 / TYPE: amino acid
 / TOPOLOGY: linear
 / MOLECULE TYPE: protein

; NAME/KEY: PRT
 ; LOCATION: (1)...(652)
 ; US-09-377-466B-6
 ;
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US -08-993-775B-14
 Query Match 99.9%; Score 3401; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 1.6e-286;
 Matches 651; Conservative 1; Indels 0; Gaps 0;
 Qy 1 MNPNRSEHDITKTPNSLQTNHQYPLADNPNSTLEELNYKEFLRMTEDESSTEVLDNS 60
 Db 1 MNPNRSEHDITKTPNSLQTNHQYPLADNPNSTLEELNYKEFLRMTEDESSTEVLDNS 60
 Qy 1 MNPNRSEHDITKTPNSLQTNHQYPLADNPNSTLEELNYKEFLRMTEDESSTEVLDNS 60
 Db 1 MNPNRSEHDITKTPNSLQTNHQYPLADNPNSTLEELNYKEFLRMTEDESSTEVLDNS 60
 Qy 61 TVKDAVGTGIVSYVGQILGVVGVPPAGALTYSQSINTIWP\$DADPKMKAHQVEVLIDK 120
 Db 61 TVKDAVGTGIVSYVGQILGVVGVPPAGALTYSQSINTIWP\$DADPKMKAHQVEVLIDK 120
 Qy 61 TVKDAVGTGIVSYVGQILGVVGVPPAGALTYSQSINTIWP\$DADPKMKAHQVEVLIDK 120
 Db 121 KIEEYAKSKAKAELQGLQNFDTYNAWSKKTPSLRSKRSQRDIRELFSQAESHFRN 180
 Qy 121 KIEEYAKSKAKAELQGLQNFDTYNAWSKKTPSLRSKRSQRDIRELFSQAESHFRN 180
 Db 121 KIEEYAKSKAKAELQGLQNFDTYNAWSKKTPSLRSKRSQRDIRELFSQAESHFRN 180
 Qy 121 KIEEYAKSKAKAELQGLQNFDTYNAWSKKTPSLRSKRSQRDIRELFSQAESHFRN 180
 Db 121 KIEEYAKSKAKAELQGLQNFDTYNAWSKKTPSLRSKRSQRDIRELFSQAESHFRN 180
 Qy 181 SMPSFAVSKEVLFPLPYAQANTHLLKDAQVGEWGSSEDVAEFYHQKLTKQQY 240
 Db 181 SMPSFAVSKEVLFPLPYAQANTHLLKDAQVGEWGSSEDVAEFYHQKLTKQQY 240
 Qy 181 SMPSFAVSKEVLFPLPYAQANTHLLKDAQVGEWGSSEDVAEFYHQKLTKQQY 240
 Db 181 SMPSFAVSKEVLFPLPYAQANTHLLKDAQVGEWGSSEDVAEFYHQKLTKQQY 240
 Qy 241 TDHCVNWNVNGLRSSTYDAWKFNRFREMTLTVDLIVLPFPDIYLSSKGVTTEL 300
 Db 241 TDHCVNWNVNGLRSSTYDAWKFNRFREMTLTVDLIVLPFPDIYLSSKGVTTEL 300
 Qy 241 TDHCVNWNVNGLRSSTYDAWKFNRFREMTLTVDLIVLPFPDIYLSSKGVTTEL 300
 Db 241 TDHCVNWNVNGLRSSTYDAWKFNRFREMTLTVDLIVLPFPDIYLSSKGVTTEL 300
 Qy 301 TRDIFTDPIFSLNLTLQEYGPTELSNSIRKPHLFDYLOGIEBFHTLQPGYFGKDSFNYW 360
 Db 301 TRDIFTDPIFSLNLTLQEYGPTELSNSIRKPHLFDYLOGIEBFHTLQPGYFGKDSFNYW 360
 Qy 301 TRDIFTDPIFSLNLTLQEYGPTELSNSIRKPHLFDYLOGIEBFHTLQPGYFGKDSFNYW 360
 Db 301 TRDIFTDPIFSLNLTLQEYGPTELSNSIRKPHLFDYLOGIEBFHTLQPGYFGKDSFNYW 360
 Qy 361 SGNYVTRPSIGSSKTTISPFYGDKSTEVPQKLSFQKVYRTIANTDVAAPNGKYLG 420
 Db 361 SGNYVTRPSIGSSKTTISPFYGDKSTEVPQKLSFQKVYRTIANTDVAAPNGKYLG 420
 Qy 361 SGNYVTRPSIGSSKTTISPFYGDKSTEVPQKLSFQKVYRTIANTDVAAPNGKYLG 420
 Db 361 SGNYVTRPSIGSSKTTISPFYGDKSTEVPQKLSFQKVYRTIANTDVAAPNGKYLG 420
 Qy 361 SGNYVTRPSIGSSKTTISPFYGDKSTEVPQKLSFQKVYRTIANTDVAAPNGKYLG 420
 Db 361 SGNYVTRPSIGSSKTTISPFYGDKSTEVPQKLSFQKVYRTIANTDVAAPNGKYLG 420
 Qy 421 VTKVDFSQYDDQNETSTQYDDEKRNNGHVSQDSDIDLPETTDEPLEKAYSHOLNVAE 480
 Db 421 VTKVDFSQYDDQNETSTQYDDEKRNNGHVSQDSDIDLPETTDEPLEKAYSHOLNVAE 480
 Qy 421 VTKVDFSQYDDQNETSTQYDDEKRNNGHVSQDSDIDLPETTDEPLEKAYSHOLNVAE 480
 Db 421 VTKVDFSQYDDQNETSTQYDDEKRNNGHVSQDSDIDLPETTDEPLEKAYSHOLNVAE 480
 Qy 481 CFLMDRRGTRGIPFFTWTHRSVDFENTIDAETKTOPVKAALSSGASIEPGFCTGGNL 540
 Db 481 CFLMDRRGTRGIPFFTWTHRSVDFENTIDAETKTOPVKAALSSGASIEPGFCTGGNL 540
 Qy 481 CFLMDRRGTRGIPFFTWTHRSVDFENTIDAETKTOPVKAALSSGASIEPGFCTGGNL 540
 Db 481 CFLMDRRGTRGIPFFTWTHRSVDFENTIDAETKTOPVKAALSSGASIEPGFCTGGNL 540
 Qy 541 LPLKESSNSIAKEPKVTLNSAALLQRYRVRIRYASTTNNRLFVQNSNNDFLVITYINKTMNK 600
 Db 541 LPLKESSNSIAKEPKVTLNSAALLQRYRVRIRYASTTNNRLFVQNSNNDFLVITYINKTMNK 600
 Qy 541 LPLKESSNSIAKEPKVTLNSAALLQRYRVRIRYASTTNNRLFVQNSNNDFLVITYINKTMNK 600
 Db 541 LPLKESSNSIAKEPKVTLNSAALLQRYRVRIRYASTTNNRLFVQNSNNDFLVITYINKTMNK 600
 Qy 601 DDDLTYQTFDIAATNSNNMGSGDKNEELLIGAESVSNEKVIYDKEFIPVQL 652
 Db 601 DDDLTYQTFDIAATNSNNMGSGDKNEELLIGAESVSNEKVIYDKEFIPVQL 652
 Qy 601 DDDLTYQTFDIAATNSNNMGSGDKNEELLIGAESVSNEKVIYDKEFIPVQL 652
 Db 601 DDDLTYQTFDIAATNSNNMGSGDKNEELLIGAESVSNEKVIYDKEFIPVQL 652

RESULT 27
 US-09-427-770-14
 ; Sequence 14, Application US/09427770
 ; Patent No. 660988
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Bresock, Susan M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulesza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatkin, Stephen L.
 ; APPLICANT: Von Teroch, Michael A.
 ; APPLICANT: Romano, Charles
 ; TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433

RESULT 26
 US-09-377-466B-6
 ; Sequence 6, Application US/09377466B
 ;
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: Romano, Charles P.
 ; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
 ; FILE REFERENCE: 38-21 (15304) Cry3Bb Improved Exp. Corn
 ; CURRENT APPLICATION NUMBER: US/09/377,466B
 ; CURRENT FILING DATE: 1999-08-19
 ; NUMBER OF SEQ ID NOS: 43
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 6
 ; LENGTH: 652
 ; OTHER INFORMATION:
 ; ORGANISM: Artificial Sequence
 ; FEATURE: Description of Artificial Sequence: synthetic or
 ; naturally occurring amino acid sequence encoded by SEQ ID NO:
 ; OTHER INFORMATION: nucleic acid segments encoding modified
 ; COLEOPTERAN-TOXIC CRYSTAL PROTEINS

CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/427,770
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/993,722
 FILING DATE: 18-DEC-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3106
 TELEFAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-427-770-14

Query Match Score 3401; DB 4; Length 652;
 Best Local Similarity 99.9%; Pred. No. 1.6e-286;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNNSSEHDITKUTNPSLQTNHNOYPLAQNPSLTELNYKEFRMTEDSSTEVDNS 60
 Db 1 MNPNNSSEHDITKUTNPSLQTNHNOYPLAQNPSLTELNYKEFRMTEDSSTEVDNS 60

Qy 61 TVRDAVGTGIVSYVGQIIGVGVGPFAGALTFSYQSFLNTIWPSDADPKWAKMAQEVEYLIDK 120
 Db 61 TVRDAVGTGIVSYVGQIIGVGVGPFAGALTFSYQSFLNTIWPSDADPKWAKMAQEVEYLIDK 120

Qy 121 KIEEYAKSKALAAELOGLQNNFDDYNNALNSWKTPSLRSRSQDRIRELFSQAESHFN 180
 Db 121 KIEEYAKSKALAAELOGLQNNFDDYNNALNSWKTPSLRSRSQDRIRELFSQAESHFN 180

Qy 181 SMPSPAVSKFEVLFLPYAQANTHILLKDQVFGEWGQSSVEDAEFYHQKLQTQI 240
 Db 181 SMPSPAVSKFEVLFLPYAQANTHILLKDQVFGEWGQSSVEDAEFYHQKLQTQI 240

Qy 241 TDHCVNWVNGLNGRLGSSTYDAWKPNFRERMTLTIVLFLVFPYDIRLYSKGVTKEL 300
 Db 241 TDHCVNWVNGLNGRLGSSTYDAWKPNFRERMTLTIVLFLVFPYDIRLYSKGVTKEL 300

Qy 301 TRDIFTDPISLNTLQBYGPTFLSIENSIRKPHLFDYLQGLEFHTRLQPGYFGKDSFNYW 360
 Db 301 TRDIFTDPISLNTLQGYGPTFLSIENSIRKPHLFDYLQGLEFHTRLQPGYFGKDSFNYW 360

Qy 361 SGNYVETRPSGSSKTTISPFQDKSTPQVQLSFEDQKVRTIANTDVAWPNGKVYLG 420
 Db 361 SGNYVETRPSGSSKTTISPFQDGKSTPQVQLSFEDQKVRTIANTDVAWPNGKVYLG 420

Qy 421 VTKVDFSQYDDORNETSTQYDSKRUNGHSQDSIDQLPPTTDEPLEKAYSHOLNAYE 480
 Db 421 VTKVDFSQYDDORNETSTQYDSKRUNGHSQDSIDQLPPTTDEPLEKAYSHOLNAYE 480

Qy 481 CPMQDRRTGTPFTWTHRSDFENTDAEKITOLPVKAVALSSGASIIIEGPGFNGNL 540
 Db 481 CPMQDRRTGTPFTWTHRSDFENTDAEKITOLPVKAVALSSGASIIIEGPGFNGNL 540

Qy 541 LPLKESSENSIAKFKVTLNSAALLQRVIRASTMNLRFQNSNDFLVYINCKTMNK 600
 Db 541 LPLKESSENSIAKFKVTLNSAALLQRVIRASTMNLRFQNSNDFLVYINCKTMNK 600

RESULT 28
 US-09-427-769-14
 ; Sequence 14, Application US/09427769
 ; Patent No. 6612030
 ; GENERAL INFORMATION:
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Brussock, Susan M.
 ; APPLICANT: Malnar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulesza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; APPLICANT: Romano, Charles
 ; TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 ; TELEOPERTAN-TOXIC CRYSTAL PROTEINS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/427,769
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: 08/993,722
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kilchall, Barbara S.
 ; REGISTRATION NUMBER: 33,928
 ; REFERENCE/DOCKET NUMBER: MECO:149
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3106
 ; TELEFAX: 512/474-7577
 ; INFORMATION FOR SEQ ID NO: 14:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-427-770-14
 ; Query Match Score 3401; DB 4; Length 652;
 ; Best Local Similarity 99.9%; Pred. No. 1.6e-286;
 ; Matches 651; Conservative 0; Mismatches 0; Indels 0; Gaps 0

RESULT 29
 US-08-996-441B-32
 Sequence 32, Application US/08996441B
 Patent No. 602013

GENERAL INFORMATION:

APPLICANT: English, Leigh H.
 APPLICANT: Bruscock, Susan M.
 APPLICANT: Malver, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kuleza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.

APPLICANT: Romano, Charles

TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS

NUMBER OF SEQUENCES: 113

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/996,441B
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECCO:151
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/474-7577

NUMBER OF SEQUENCES: 113

RESULT 30
 US-08-996-441B-48
 Sequence 48, Application US/08996441B
 Patent No. 602013

GENERAL INFORMATION:

APPLICANT: English, Leigh H.
 APPLICANT: Bruscock, Susan M.
 APPLICANT: Malver, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kuleza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.

APPLICANT: Romano, Charles

TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS

CORRESPONDENCE ADDRESS:
 ADDRESS: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,441B
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECCO:151
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 48:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: Protein
 US-08-996-441B-48

Query Match 99.8%; Score 3400; DB 3; Length 652;
 Best Local Similarity 99.7%; Pred. No. 2e-286; Indels 0; Gaps 0;
 Matches 650; Conservative 1; Mismatches 1;

Qy 1 MNPNRSEDTIKVTPNSLQTHNOYPLADPNSTLEELNKFRLMTEDSSTEVLDNS 60
 Db 1 MNPNRSEDTIKVTPNSLQTHNOYPLADPNSTLEELNKFRLMTEDSSTEVLDNS 60

Qy 61 TVDAVGTSIVSQIQLGVGPAGALTSPYOSFLATIWPSPDPAKFMQAQEVTLIDK 120
 Db 61 TVDAVGTSIVSQIQLGVGPAGALTSPYOSFLATIWPSPDPAKFMQAQEVTLIDK 120

Qy 121 KIEYAKSKALARLQLONNFEDVNALNSWKKTPSLRSKSQDRKRELFSQAESHFRN 180
 Db 121 KIEYAKSKALARLQLONNFEDVNALNSWKKTPSLRSKSQDRKRELFSQAESHFRN 180

Qy 181 SMFAVSKPEVLFPLPTYAQANTHLLKDAQVFGEWGYSSEDVAEYHRQLKTQY 240
 Qy 181 SMFAVSKPEVLFPLPTYAQANTHLLKDAQVFGEWGYSSEDVAEYHRQLKTQY 240

Qy 241 TDFCVNWNNGLRLGSGTSDAVKFKFRRRENTLVLDLIVLFPFDVRLPKGYKTEL 300
 Db 241 TDFCVNWNNGLRLGSGTSDAVKFKFRRRENTLVLDLIVLFPFDVRLPKGYKTEL 300

Qy 301 TRDIFTDPFLSLNTLQEGPTFELSIENIRKPHLPDLYQGISFHTRLQPGYFGKDSFMW 360
 Db 301 TRDIFTDPFLSLNTLQEGPTFELSIENIRKPHLPDLYQGISFHTRLQPGYFGKDSFMW 360

Qy 361 SGNYVETRPSIGSSKTTSPFYGDKSTEPVQKLISFDGOKVYRTIANTDVAAMPNGKVYLG 420
 Db 361 SGNYVETRPSIGSSKTTSPFYGDKSTEPVQKLISFDGOKVYRTIANTDVAAMPNGKVYLG 420

Qy 421 VTKVDFSDQDNETSTQTYDEKRNNHVSADSDIOPPTEDEPKAYSHOLNAYE 480
 Db 421 VTKVDFSDQDNETSTQTYDEKRNNHVSADSDIOPPTEDEPKAYSHOLNAYE 480

Qy 481 CFLMQDRREGTIPFETWHSDFENTDAEKITOLPVKAYALSGASIEGPGFTCGNL 540
 Db 481 CFLMQDRREGTIPFETWHSDFENTDAEKITOLPVKAYALSGASIEGPGFTCGNL 540

Qy 541 LFLKESSNSIAKFKVTNSALLQRYVRVRASTTNRLFVNSNNDFLVYINKTMNK 600

Db 541 LFLKESSNSIAKFKVTNSALLQRYVRVRASTTNRLFVNSNNDFLVYINKTMNK 600

Qy 601 DDPLYQTFDATTNSNMGFSGDXNELLIGAESFSNEKYIDKIEFIPVQL 652
 Db 601 DDPLYQTFDATTNSNMGFSGDXNELLIGAESFSNEKYIDKIEFIPVQL 652

RESULT 31
 US-08-993-722A-32
 ; Sequence 32, Application US/08993722A
 ; Patent No. 6060594
 ; GENERAL INFORMATION:
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Brusock, Susan M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulesza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen J.
 ; APPLICANT: Von Tersch, Michael A.
 ; APPLICANT: Romano, Charles
 ; TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 ; TITLE OF INVENTION: COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC Compatible
 ; OPERATING SYSTEM: PC-DO/S/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/993,722A
 ; FILING DATE: 18-DEC-1997
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 33,928
 ; REVERSE/DOCKET NUMBER: MECCO:149
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3106
 ; TELEFAX: 512/474-7577
 ; INFORMATION FOR SEQ ID NO: 32:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-08-993-722A-32

Query Match 99.8%; Score 3400; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2e-286; Indels 0; Gaps 0;
 Matches 651; Conservative 0; Mismatches 1;

Qy 1 MNPNRSEDTIKVTPNSLQTHNOYPLADPNSTLEELNKFRLMTEDSSTEVLDNS 60
 Db 1 MNPNRSEDTIKVTPNSLQTHNOYPLADPNSTLEELNKFRLMTEDSSTEVLDNS 60

Qy 61 TVKDAVGTSIVSQIQLGVGPAGALTSPYOSFLATIWPSPDPAKFMQAQEVTLIDK 120
 Db 61 TVKDAVGTSIVSQIQLGVGPAGALTSPYOSFLATIWPSPDPAKFMQAQEVTLIDK 120

Qy 121 KIEYAKSKALARLQLONNFEDVNALNSWKKTPSLRSKSQDRKRELFSQAESHFRN 180
 Db 121 KIEYAKSKALARLQLONNFEDVNALNSWKKTPSLRSKSQDRKRELFSQAESHFRN 180

Qy 181 SMFAVSKPEVLFPLPTYAQANTHLLKDAQVFGEWGYSSEDVAEYHRQLKTQY 240
 Db 181 SMFAVSKPEVLFPLPTYAQANTHLLKDAQVFGEWGYSSEDVAEYHRQLKTQY 240

Qy 241 TDFCVNWNNGLRLGSGTSDAVKFKFRRRENTLVLDLIVLFPFDVRLPKGYKTEL 300
 Db 241 TDFCVNWNNGLRLGSGTSDAVKFKFRRRENTLVLDLIVLFPFDVRLPKGYKTEL 300

Qy 301 TRDIFTDPFLSLNTLQEGPTFELSIENIRKPHLPDLYQGISFHTRLQPGYFGKDSFMW 360
 Db 301 TRDIFTDPFLSLNTLQEGPTFELSIENIRKPHLPDLYQGISFHTRLQPGYFGKDSFMW 360

Qy 361 SGNYVETRPSIGSSKTTSPFYGDKSTEPVQKLISFDGOKVYRTIANTDVAAMPNGKVYLG 420
 Db 361 SGNYVETRPSIGSSKTTSPFYGDKSTEPVQKLISFDGOKVYRTIANTDVAAMPNGKVYLG 420

Qy 421 VTKVDFSDQDNETSTQTYDEKRNNHVSADSDIOPPTEDEPKAYSHOLNAYE 480
 Db 421 VTKVDFSDQDNETSTQTYDEKRNNHVSADSDIOPPTEDEPKAYSHOLNAYE 480

Qy 481 CFLMQDRREGTIPFETWHSDFENTDAEKITOLPVKAYALSGASIEGPGFTCGNL 540
 Db 481 CFLMQDRREGTIPFETWHSDFENTDAEKITOLPVKAYALSGASIEGPGFTCGNL 540

Qy 541 LFLKESSNSIAKFKVTNSALLQRYVRVRASTTNRLFVNSNNDFLVYINKTMNK 600

Db 541 LFLKESSNSIAKFKVTNSALLQRYVRVRASTTNRLFVNSNNDFLVYINKTMNK 600

Qy 601 DDPLYQTFDATTNSNMGFSGDXNELLIGAESFSNEKYIDKIEFIPVQL 652
 Db 601 DDPLYQTFDATTNSNMGFSGDXNELLIGAESFSNEKYIDKIEFIPVQL 652

Qy 661 TVKDAVGTSIVSQIQLGVGPAGALTSPYOSFLATIWPSPDPAKFMQAQEVTLIDK 120
 Db 661 TVKDAVGTSIVSQIQLGVGPAGALTSPYOSFLATIWPSPDPAKFMQAQEVTLIDK 120

Qy 121 KIEYAKSKALARLQLONNFEDVNALNSWKKTPSLRSKSQDRKRELFSQAESHFRN 180
 Db 121 KIEYAKSKALARLQLONNFEDVNALNSWKKTPSLRSKSQDRKRELFSQAESHFRN 180

Qy 181 SMPSFAVSKPEVLFPLPTYAQANTHLLKDAQVFGEWGYSSEDVAEYHRQLKTQY 240

Db 181 SMPSFAVSKFEVLFLUPTYQQAANTHLLLKDQVYFGEENGSSVEDAEPYHROLKLTKQY 240 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-993-722A-48

Qy 241 TDHCYWNWYNGLNGRGTSDAWKFNRFREMTLTVLDI:VLPFYDRLYSGKVTEL 300 ;
 Db 241 TDHCYWNWYNGLNGRGTSDAWKFNRFREMTLTVLDI:VLPFYDRLYSGKVTEL 300 ;
 ;
 Db 301 TRDIFTDPFLSINTLQEGPFTLSENTRKPHFLDYLOGIEFHTRQLQPKGDGSFNYW 360 ;
 Qy 301 TRDIFTDPFLSINTLQEGPFTLSENTRKPHFLDYLOGIEFHTRQLQPKGDGSFNYW 360 ;
 ;
 Db 361 SGNYVETRPSIGSSKTTISPPYGDKSTEPEQKLSPDGOKYRTIANTDVAAPNGKVYLG 420 ;
 Qy 361 SGNYVETRPSIGSSKTTISPPYGDKSTEPEQKLSPDGOKYRTIANTDVAAPNGKVYLG 420 ;
 ;
 Db 361 SGNYVETRPSIGSSKTTISPPYGDKSTEPEQKLSPDGOKYRTIANTDVAAPNGKVYLG 420 ;
 ;
 Db 61 TVKDAVGTLASVYQOLIVGVPAGALTSEYOSFLNTIWPSPADPKMAQEVLIDK 120 ;
 Qy 61 TVKDAVGTLASVYQOLIVGVPAGALTSEYOSFLNTIWPSPADPKMAQEVLIDK 120 ;
 ;
 Db 61 TVKDAVGTLASVYQOLIVGVPAGALTSEYOSFLNTIWPSPADPKMAQEVLIDK 120 ;
 ;
 Db 121 KIEEYAKSKALABOGLQNNPFDYVNAINSWIKTPLSLRSKRSQDRIRELFSQAESIFRN 180 ;
 Qy 121 KIEEYAKSKALABOGLQNNPFDYVNAINSWIKTPLSLRSKRSQDRIRELFSQAESIFRN 180 ;
 ;
 Db 121 KIEEYAKSKALABOGLQNNPFDYVNAINSWIKTPLSLRSKRSQDRIRELFSQAESIFRN 180 ;
 ;
 Db 181 SMPSEAVSKFEVLPLPTAQAAANTHLLKKDQAQFGEWGYSSEDVAEPYHROLKLTKQY 240 ;
 Qy 181 SMPSEAVSKFEVLPLPTAQAAANTHLLKKDQAQFGEWGYSSEDVAEPYHROLKLTKQY 240 ;
 ;
 Db 181 SMPSEAVSKFEVLPLPTAQAAANTHLLKKDQAQFGEWGYSSEDVAEPYHROLKLTKQY 240 ;
 ;
 Db 241 TDHCYWNWYNGLNGRGTSDAWKFNRFREMTLTVLDI:VLPFYDRLYPKGVTEL 300 ;
 Qy 241 TDHCYWNWYNGLNGRGTSDAWKFNRFREMTLTVLDI:VLPFYDRLYPKGVTEL 300 ;
 ;
 Db 241 TDLCFTDPFLSINTLQEGPFTLSENTRKPHFLDYLOGIEFHTRQLQFGKDSFNYW 360 ;
 Qy 241 TDLCFTDPFLSINTLQEGPFTLSENTRKPHFLDYLOGIEFHTRQLQFGKDSFNYW 360 ;
 ;
 Db 301 TDLCFTDPFLSINTLQEGPFTLSENTRKPHFLDYLOGIEFHTRQLQFGKDSFNYW 360 ;
 Qy 301 TDLCFTDPFLSINTLQEGPFTLSENTRKPHFLDYLOGIEFHTRQLQFGKDSFNYW 360 ;
 ;
 Db 361 SGNYVETRPSIGSSKTTISPPYGDKSTEPEQKLSPDGOKYRTIANTDVAAPNGKVYLG 420 ;
 Qy 361 SGNYVETRPSIGSSKTTISPPYGDKSTEPEQKLSPDGOKYRTIANTDVAAPNGKVYLG 420 ;
 ;
 Db 421 VTKIDFSDQDDQKRETSTQTYDSKRNGHTVSADQSIDQLPPTTDEPLKEAYSHOLNAYE 480 ;
 Qy 421 VTKIDFSDQDDQKRETSTQTYDSKRNGHTVSADQSIDQLPPTTDEPLKEAYSHOLNAYE 480 ;
 ;
 Db 421 VTKIDFSDQDDQKNETSTQTYDSKRNGHVSADQSIDQLPPTTDEPLKEAYSHOLNAYE 480 ;
 Qy 481 CFLMQRDRGTIPFFTWHSVDFFNTIDEKITOLPVVKAYALSASSIEGPFTGGNL 540 ;
 ;
 Db 481 CFLMQRDRGTIPFFTWHSVDFFNTIDEKITOLPVVKAYALSASSIEGPFTGGNL 540 ;
 ;
 Db 541 LFLKESNSIAKFYTLNSALLQYRVRIRYASTNLRLFVQNSNDFLVITYINKTMK 600 ;
 Qy 541 LFLKESNSIAKFYTLNSALLQYRVRIRYASTNLRLFVQNSNDFLVITYINKTMK 600 ;
 ;
 Db 541 LFLKESNSIAKFYTLNSALLQYRVRIRYASTNLRLFVQNSNDFLVITYINKTMK 600 ;
 ;
 RESULT 32 ;
 US-08-993-722A-48 ;
 ; Sequence 48, Application US/08993722A
 ; Patent No. 6050594
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Bruscock, Thomas M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kuleza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; APPLICANT: Romano, Charles
 ; TITLE OF INVENTION: NUCLEIC ACID SEGMENTS ENCODING MODIFIED
 ; TITLE OF INVENTION: COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; STREET: Arnold, White & Durkee
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTY: USA
 ; ZIP: 77210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/993,722A
 ; FILING DATE: 18-DEC-1997
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 33,328
 ; REFERENCE/DOCKET NUMBER: MECO:149
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3106
 ; TELEX: 512/414-7577
 ; INFORMATION FOR SEQ ID NO: 48:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-993-722A-48
 ; Query Match 99.8%; Score 3400; DB 3;
 ; Best Local Similarity 99.7%; Prod. No. 2e-286;
 ; Matches 650; Conservatve 1; MisMatches 1; Indels 0;
 ; Gaps 0;

STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993,170A
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECCO: 002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 32:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: Protein
 US-08-993-170A-32

Query Match 99.8%; Score 3400; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2e-286; Indels 0; Gaps 0;
 Matches 651; Conservative 0; Mismatches 1;

Qy	1	MNPNNRSEHDITIKVTPNSELQTNHQNPYPLADNNTSLTEFLNKTKEFLMTEDSSTEVLDNS	60
Db	1	MNPNNRSEHDITIKVTPNSELQTNHQNPYPLADNNTSLTEFLNKTKEFLMTEDSSTEVLDNS	60
Qy	61	TVKDAVGTCISVQGQIIGVGVPPAGALTSTYQOSFLNTIWPSADPKWMAQVEVLIDK	120
Db	61	TVKDAVGTCISVQGQIIGVGVPPAGALTSTYQOSFLNTIWPSADPKWMAQVEVLIDK	120
Qy	121	KIEEYAKSKALAAELQGLQNINFEDVNALNSWKCTPLSLRSRSQDRIRELFSQAESHFRN	180
Db	121	KIEEYAKSKALAAELQGLQNINFEDVNALNSWKCTPLSLRSRSQDRIRELFSQAESHFRN	180
Qy	181	SMPSFAVSKFEVFLPPTAQAANTHLLKDQVFGEWGYSEDVAEFYHRQLKLQQY	240
Db	181	SMPSFAVSKFEVFLPPTAQAANTHLLKDQVFGEWGYSEDVAEFYHRQLKLQQY	240
Qy	241	TDHCVNWTNGLNGLRSSTYDAVTKENFRRENTLTLDLIVLFPFDRLRISKGVKTTEL	300
Db	241	TDHCVNWTNGLNGLRSSTYDAVTKENFRRENTLTLDLIVLFPFDRLRISKGVKTTEL	300
Qy	301	TRDIFTDPFIINTLQBTQPTFUSIIRKPHLFDTLQGIEBFHTRLQPGFGKDSFNYW	360
Db	301	TRDIFTDPFIINTLQBTQPTFUSIIRKPHLFDTLQGIEBFHTRLQPGFGKDSFNYW	360
Qy	361	SQNYVETRPSIGSKTITSPTYGDKSSTEPVQKLISFDGKRYTTIANTDVAAPNGKYLG	420
Db	361	SQNYVETRPSIGSKTITSPTYGDKSSTEPVQKLISFDGKRYTTIANTDVAAPNGKYLG	420
Qy	421	VTKVDFESQDDQNETSTQTYDSKRANCHVSAQDSIDOLPPTTDEPLEKASHOLNAYE	480
Db	421	VTKVDFESQDDQNETSTQTYDSKRANCHVSAQDSIDOLPPTTDEPLEKASHOLNAYE	480
Qy	481	CFLMDRGTGTTPFPTWTHRSVDFNTDAEKITQLPVTKAYALSGASIIEGPGFTGGNL	540
Db	481	CFLMDRGTGTTPFPTWTHRSVDFNTDAEKITQLPVTKAYALSGASIIEGPGFTGGNL	540
Qy	541	LFLKESSNSIAKPKVTUNSAALLQRYVRIRYASTTNRFLYONSNNDFLVYINKTMNK	600
Db	541	LFLKESSNSIAKPKVTUNSAALLQRYVRIRYASTTNRFLYONSNNDFLVYINKTMNK	600
Qy	601	DDDTIYQTFDLATNNSNNGFSGDKNELLIGAESPVSNEXYIDKIEFIPVQL	652
Db	601	DDDTIYQTFDLATNNSNNGFSGDKNELLIGAESPVSNEXYIDKIEFIPVQL	652

RESULT 34
 US-08-993-170A-48
 ; Sequence 48, Application US/08993170A
 ; Patent No. 606597
 ; GENERAL INFORMATION:
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Brussock, Susan M.
 ; APPLICANT: Malver, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kuleenza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; TITLE OF INVENTION: POLYPEPTIDE COMPOSITIONS TOXIC TO
 ; TITLE OF INVENTION: COLEOPTERAN INSECTS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P. O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOSS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993,170A
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECCO: 002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 48:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-993-170A-48

Query Match 99.8%; Score 3400; DB 3; Length 652;
 Best Local Similarity 99.7%; Pred. No. 2e-286; Matches 650; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNNRSEHDITIKVTPNSELQTNHQNPYPLADNNTSLTEFLNKTKEFLMTEDSSTEVLDNS 60
 Db 1 MNPNNRSEHDITIKVTPNSELQTNHQNPYPLADNNTSLTEFLNKTKEFLMTEDSSTEVLDNS 60
 Qy 61 TVKDAVGTCISVQGQIIGVGVPPAGALTSTYQOSFLNTIWPSADPKWMAQVEVLIDK 120
 Db 61 TVKDAVGTCISVQGQIIGVGVPPAGALTSTYQOSFLNTIWPSADPKWMAQVEVLIDK 120
 Qy 121 KIEEYAKSKALAAELQGLQNINFEDVNALNSWKCTPLSLRSRSQDRIRELFSQAESHFRN 180
 Db 121 KIEEYAKSKALAAELQGLQNINFEDVNALNSWKCTPLSLRSRSQDRIRELFSQAESHFRN 180
 Qy 181 SMPSFAVSKFEVFLPPTAQAANTHLLKDQVFGEWGYSEDVAEFYHRQLKLQQY 240
 Db 181 SMPSFAVSKFEVFLPPTAQAANTHLLKDQVFGEWGYSEDVAEFYHRQLKLQQY 240
 Qy 241 TDHCVNWTNGLNGLRSSTYDAVTKENFRRENTLTLDLIVLFPFDRLRISKGVKTTEL 300
 Db 241 TDHCVNWTNGLNGLRSSTYDAVTKENFRRENTLTLDLIVLFPFDRLRISKGVKTTEL 300
 Qy 301 TRDIFTDPFIINTLQBTQPTFUSIIRKPHLFDTLQGIEBFHTRLQPGFGKDSFNYW 360
 Db 301 TRDIFTDPFIINTLQBTQPTFUSIIRKPHLFDTLQGIEBFHTRLQPGFGKDSFNYW 360
 Qy 361 SGNYVETRPSIGSKTITSPTYGDKSSTEPVQKLISFDGKRYTTIANTDVAAPNGKYLG 420
 Db 361 SGNYVETRPSIGSKTITSPTYGDKSSTEPVQKLISFDGKRYTTIANTDVAAPNGKYLG 420
 Qy 421 VTKVDFESQDDQNETSTQTYDSKRANCHVSAQDSIDOLPPTTDEPLEKASHOLNAYE 480
 Db 421 VTKVDFESQDDQNETSTQTYDSKRANCHVSAQDSIDOLPPTTDEPLEKASHOLNAYE 480
 Qy 481 CFLMDRGTGTTPFPTWTHRSVDFNTDAEKITQLPVTKAYALSGASIIEGPGFTGGNL 540
 Db 481 CFLMDRGTGTTPFPTWTHRSVDFNTDAEKITQLPVTKAYALSGASIIEGPGFTGGNL 540
 Qy 541 LFLKESSNSIAKPKVTUNSAALLQRYVRIRYASTTNRFLYONSNNDFLVYINKTMNK 600
 Db 541 LFLKESSNSIAKPKVTUNSAALLQRYVRIRYASTTNRFLYONSNNDFLVYINKTMNK 600
 Qy 601 DDDITYQTFDLATNNSNNGFSGDKNELLIGAESPVSNEXYIDKIEFIPVQL 652
 Db 601 DDDITYQTFDLATNNSNNGFSGDKNELLIGAESPVSNEXYIDKIEFIPVQL 652

Query Match 99.8%; Score 3400; DB 3; Length 652;
 Best Local Similarity 99.7%; Pred. No. 2e-286; Matches 650; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNNRSEHDITIKVTPNSELQTNHQNPYPLADNNTSLTEFLNKTKEFLMTEDSSTEVLDNS 60
 Db 1 MNPNNRSEHDITIKVTPNSELQTNHQNPYPLADNNTSLTEFLNKTKEFLMTEDSSTEVLDNS 60
 Qy 61 TVKDAVGTCISVQGQIIGVGVPPAGALTSTYQOSFLNTIWPSADPKWMAQVEVLIDK 120
 Db 61 TVKDAVGTCISVQGQIIGVGVPPAGALTSTYQOSFLNTIWPSADPKWMAQVEVLIDK 120
 Qy 121 KIEEYAKSKALAAELQGLQNINFEDVNALNSWKCTPLSLRSRSQDRIRELFSQAESHFRN 180
 Db 121 KIEEYAKSKALAAELQGLQNINFEDVNALNSWKCTPLSLRSRSQDRIRELFSQAESHFRN 180
 Qy 181 SMPSFAVSKFEVFLPPTAQAANTHLLKDQVFGEWGYSEDVAEFYHRQLKLQQY 240
 Db 181 SMPSFAVSKFEVFLPPTAQAANTHLLKDQVFGEWGYSEDVAEFYHRQLKLQQY 240
 Qy 241 TDHCVNWTNGLNGLRSSTYDAVTKENFRRENTLTLDLIVLFPFDRLRISKGVKTTEL 300

Db 241 TDHCYWWYNGLNGRGSTDAWKFRNPREMTLVLDLIVTFFPDVLYXPGKTEL 300
 Qy 301 TRDIFTDPISLNTLQEXGPTELSTENSTRKPHLFDTYLOGIEPFTRIQLGYFGKDSFNYW 360
 Db 301 TRDIFTDPISLNTLQEXGPTELSTENSTRKPHLFDTYLOGIEPFTRIQLGYFGKDSFNYW 360
 Qy 361 SGNYVETRPSGSRTITSFYGKSTSEPKQLSFDPQKYRTIANTDVAAPNGKTYLG 420
 Db 361 SGNYVETRPSGSRTITSFYGKSTSEPKQLSFDPQKYRTIANTDVAAPNGKTYLG 420
 Qy 421 VTKVDFSQYDQKNETSTQYDSKRKNNGHSAQSDISDOLPPTDEPLEKAYSHOLNAYA 480
 Db 421 VTKVDFSQYDQKNETSTQYDSKRKNNGHSAQSDISDOLPPTDEPLEKAYSHOLNAYA 480
 Qy 421 VTKVDFSQYDQKNETSTQYDSKRKNNGHSAQSDISDOLPPTDEPLEKAYSHOLNAYA 480
 Db 481 CFLMDQRGTTIPFFTWFTHRSDFTNTDAEKITOLPVVKAYALSSGASIEEGPFTGNNL 540
 Qy 481 CFLMDQRGTTIPFFTWFTHRSDFTNTDAEKITOLPVVKAYALSSGASIEEGPFTGNNL 540
 Db 541 LFLKESSNSIAKFKVTLNSAAILQRYVRVRYASTNLRLFVQNSNDFTVIVYINKTNK 600
 Qy 541 LFLKESSNSIAKFKVTLNSAAILQRYVRVRYASTNLRLFVQNSNDFTVIVYINKTNK 600
 Db 601 DDDLTYQTFPLATTNSNMGFSGDKNEELIGAESFSNEKVIYDKEFIPVQL 652
 Qy 601 DDDLTYQTFPLATTNSNMGFSGDKNEELIGAESFSNEKVIYDKEFIPVQL 652
 Db 601 DDDLTYQTFPLATTNSNMGFSGDKNEELIGAESFSNEKVIYDKEFIPVQL 652

RESULT 35
 US-08-993-775B-32
 ; Sequence 32, Application US/08993775B
 ; Patent No. 6077624

; GENERAL INFORMATION
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Brussock, Susan M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulesza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatkin, Stephen L.

; APPLICANT: Von Tersch, Michael A.
 ; TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF

; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA

; ZIP: 77210

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/993,775B
 ; FILING DATE: 18-DEC-1997
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 33,928

; REFERENCE/DOCKET NUMBER: MECO:150
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3000
 ; TELEFAX: 512/414-7577

; INFORMATION FOR SEQ ID NO: 32:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein

US-08-993-775B-32

Query Match 99.8% Score 3400; DB 3; Length 652;
 Best Local Similarity 99.8% Pred. No. 2e-286;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 MNPNNRSEHTDKTYPNSELQTNHQYLADNPNSTLBEENYKFLRMTEDSSTEVLONS 60
 Db 1 MNPNNRSEHTDKTYPNSELQTNHQYLADNPNSTLBEENYKFLRMTEDSSTEVLONS 60
 Qy 61 TVKDAVGTGIVSGVQILGYVGPAGALTSFYQSPLNTIWPSDADPKMAQEVLIDK 120
 Db 61 TVKDAVGTGIVSGVQILGYVGPAGALTSFYQSPLNTIWPSDADPKMAQEVLIDK 120
 Qy 121 KLEYAKSKALABLOQJNQFEDYNALNWKKTPLSLRSKRSQDRIRLFQASHEHFRN 180
 Db 121 KLEYAKSKALABLOQJNQFEDYNALNWKKTPLSLRSKRSQDRIRLFQASHEHFRN 180
 Qy 181 SNPSFAVSKEVFLFLPYTAQANTHLLKKDAQVGEWGSSEDVAEFTYRQLKLTQQY 240
 Db 181 SNPSFAVSKEVFLFLPYTAQANTHLLKKDAQVGEWGSSEDVAEFTYRQLKLTQQY 240
 Qy 241 TDHCVNVTNVGLNGRLSSTYDAWKFRNFREREMTTLVFLVFLPYDIREYSKGVRTEL 300
 Db 241 TDHCVNVTNVGLNGRLSSTYDAWKFRNFREREMTTLVFLVFLPYDIREYSKGVRTEL 300
 Qy 301 TRDIFTDPIFSINTLQBYGPTFLSIENSIRKEPHLFDVLOGEFHTRIQLQGKDFGSFNYW 360
 Db 301 TRDIFTDPIFSINTLQBYGPTFLSIENSIRKEPHLFDVLOGEFHTRIQLQGKDFGSFNYW 360
 Qy 361 SGNYVETRPSIGSSKTITSFVGDKSTBVKLUSFDQVKVRTIANTDVAWPNGKTYLG 420
 Db 361 SGNYVETRPSIGSSKTITSFVGDKSTBVKLUSFDQVKVRTIANTDVAWPNGKTYLG 420
 Qy 421 VTKYDFSQYDDQNETSTOTYDSKRKNNGHSAQSDISDOLPPTTDELEKAYSHOLNAYA 480
 Db 421 VTKYDFSQYDDQNETSTOTYDSKRKNNGHSAQSDISDOLPPTTDELEKAYSHOLNAYA 480
 Qy 481 CFLMQDRRTGTTIPFTTWRSVDFNTDAEKITQLPVVKAYALSSGASIEEGPFTGNNL 540
 Db 481 CFLMQDRRTGTTIPFTTWRSVDFNTDAEKITQLPVVKAYALSSGASIEEGPFTGNNL 540
 Qy 541 LFLKESNSIATKPVTLNSAAILQRYVRVRYASTNLRLFVQNSNDFTVIVYINKTNK 600
 Db 541 LFLKESNSIATKPVTLNSAAILQRYVRVRYASTNLRLFVQNSNDFTVIVYINKTNK 600
 Qy 601 DDDLTYQTFPLATTNSNMGFSGDKNEELIGAESFSNEKVIYDKEFIPVQL 652
 Db 601 DDDLTYQTFPLATTNSNMGFSGDKNEELIGAESFSNEKVIYDKEFIPVQL 652

RESULT 36

US-08-993-775B-48
 ; Sequence 48, Application US/08993775B
 ; Patent No. 6077824
 ; GENERAL INFORMATION:
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Brussock, Susan M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kulesza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatkin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA

ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993,775B
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:150
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/418-7577
 INFORMATION FOR SEQ ID NO: 48:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-993-775B-48

Query Match 99.8%; Score 3400; DB 3; Length 652;
 Best Local Similarity 91.7%; Pred. No. 2e-286;
 Matches 650; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy	1 MNPNRSEADTIKVTPNSLQTNNQYPADNPNSTLEELNKEFLRMTEDSSTEVLDS	60
Db	1 MNPNRSEADTIKVTPNSLQTNNQYPADNPNSTLEELNKEFLRMTEDSSTEVLDS	60
Qy	61 TVDAVGTSVSYGQILGVPPAGALTSPYQSLNTPWSDAPWKAQVEVLDK 120	
Db	61 TVDAVGTSVSYGQILGVPPAGALTSPYQSLNTPWSDAPWKAQVEVLDK 120	
Qy	121 KIEBAKSKALAEQLGLQNINFDTYNALNWKTKPLSLRSKRSQDRTRFLSQAESHRN 180	
Db	121 KIEBAKSKALAEQLGLQNINFDTYNALNWKTKPLSLRSKRSQDRTRFLSQAESHRN 180	
Qy	181 SMPSPAVSFKEVLPLPTYAQAAANTHLLIKDAQVGEENGYSSVEDAFAFYHQRLKLQQY 240	
Db	181 SMPSPAVSFKEVLPLPTYAQAAANTHLLIKDAQVGEENGYSSVEDAFAFYHQRLKLQQY 240	
Qy	241 TDHCVNWNVNGLNGLRGSTYDAWYKFNRFRENTLTVDLIVLFPFYDILRYSKGKVTEL 300	
Db	241 TDHCVNWNVNGLNGLRGSTYDAWYKFNRFRENTLTVDLIVLFPFYDILRYSKGKVTEL 300	
Qy	301 TRDIFTDPFLSINTLQEYQCPTELSIENSTRKPHLFDFYDQGIEFHTRLOGYFGDKSNYW 360	
Db	301 TRDIFTDPFLSINTLQEYQCPTELSIENSTRKPHLFDFYDQGIEFHTRLOGYFGDKSNYW 360	
Qy	421 VTKYDFSDQDDQNETSTQTYDSRNRNGTVSAQDSDIDQLPETTDEPKATSHOLNYAE 480	
Db	421 VTKYDFSDQDDQNETSTQTYDSRNRNGTVSAQDSDIDQLPETTDEPKATSHOLNYAE 480	
Qy	481 CFLMQDRRGTIPPTWTHSVDFENTIDAEKITOLPVKAYAASSGASIEGPGFTGQNL 540	
Db	481 CFLMQDRRGTIPPTWTHSVDFNTIDAEKITOLPVKAYAASSGASIEGPGFTGQNL 540	
Qy	541 LFLKESNSIAKFVTLNAAALLORYVRIRYASTTNRLFVONSNNDFLVYINKTMNK 600	
Db	541 LFLKESNSIAKFVTLNAAALLORYVRIRYASTTNRLFVONSNNDFLVYINKTMNK 600	
Qy	601 DDDITYQTFDLATNNMGSQDNEILIGAESFVSNEKYYIDKIEFIPVQL 652	
Db	601 DDDITYQTFDLATNNMGSQDNEILIGAESFVSNEKYYIDKIEFIPVQL 652	
Qy	1 MNPNRSEADTIKVTPNSLQTNNQYPADNPNSTLEELNKEFLRMTEDSSTEVLDS 60	
Db	1 MNPNRSEADTIKVTPNSLQTNNQYPADNPNSTLEELNKEFLRMTEDSSTEVLDS 60	
Qy	61 TVDAVGTSVSYGQILGVPPAGALTSPYQSLNTPWSDAPWKAQVEVLDK 120	
Db	61 TVDAVGTSVSYGQILGVPPAGALTSPYQSLNTPWSDAPWKAQVEVLDK 120	
Qy	121 KIEBAKSKALAEQLGLQNINFDTYNALNWKTKPLSLRSKRSQDRTRFLSQAESHRN 180	
Db	121 KIEBAKSKALAEQLGLQNINFDTYNALNWKTKPLSLRSKRSQDRTRFLSQAESHRN 180	
Qy	181 SMPSPAVSFKEVLPLPTYAQAAANTHLLIKDAQVGEENGYSSVEDAFAFYHQRLKLQQY 240	
Db	181 SMPSPAVSFKEVLPLPTYAQAAANTHLLIKDAQVGEENGYSSVEDAFAFYHQRLKLQQY 240	
Qy	241 TDHCVNWNVNGLNGLRGSTYDAWYKFNRFRENTLTVDLIVLFPFYDILRYSKGKVTEL 300	
Db	241 TDHCVNWNVNGLNGLRGSTYDAWYKFNRFRENTLTVDLIVLFPFYDILRYSKGKVTEL 300	
Qy	301 TRDIFTDPFLSINTLQEYQCPTELSIENSTRKPHLFDFYDQGIEFHTRLOGYFGDKSNYW 360	
Db	301 TRDIFTDPFLSINTLQEYQCPTELSIENSTRKPHLFDFYDQGIEFHTRLOGYFGDKSNYW 360	
Qy	421 VTKYDFSDQDDQNETSTQTYDSRNRNGTVSAQDSDIDQLPETTDEPKATSHOLNYAE 480	
Db	421 VTKYDFSDQDDQNETSTQTYDSRNRNGTVSAQDSDIDQLPETTDEPKATSHOLNYAE 480	
Qy	481 CFLMQDRRGTIPPTWTHSVDFNTIDAEKITOLPVKAYAASSGASIEGPGFTGQNL 540	
Db	481 CFLMQDRRGTIPPTWTHSVDFNTIDAEKITOLPVKAYAASSGASIEGPGFTGQNL 540	
Qy	541 LFLKESNSIAKFVTLNAAALLORYVRIRYASTTNRLFVONSNNDFLVYINKTMNK 600	
Db	541 LFLKESNSIAKFVTLNAAALLORYVRIRYASTTNRLFVONSNNDFLVYINKTMNK 600	
Qy	601 DDDITYQTFDLATNNMGSQDNEILIGAESFVSNEKYYIDKIEFIPVQL 652	
Db	601 DDDITYQTFDLATNNMGSQDNEILIGAESFVSNEKYYIDKIEFIPVQL 652	
Qy	121 KIEBAKSKALAEQLGLQNINFDTYNALNWKTKPLSLRSKRSQDRTRFLSQAESHRN 180	
Db	121 KIEBAKSKALAEQLGLQNINFDTYNALNWKTKPLSLRSKRSQDRTRFLSQAESHRN 180	
Qy	181 SMPSPAVSFKEVLPLPTYAQAAANTHLLIKDAQVGEENGYSSVEDAFAFYHQRLKLQQY 240	
Db	181 SMPSPAVSFKEVLPLPTYAQAAANTHLLIKDAQVGEENGYSSVEDAFAFYHQRLKLQQY 240	
Qy	241 TDHCVNWNVNGLNGLRGSTYDAWYKFNRFRENTLTVDLIVLFPFYDILRYSKGKVTEL 300	

RESULT 437
 US-09-427-770-32 ; Sequence 32, Application US/09427770
 Patent No. 6620588 ;
 GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brussock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Rulea, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Romano, Charles
 TITLE OF INVENTION: NUCLEIC ACID SEGMENTS ENCODING MODIFIED
 TITLE OF INVENTION: COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4333
 CITY: Houston
 STATE: Texas
 ZIP: 77210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DO/Ms-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/427,770
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/993,7722
 FILING DATE: 18-DEC-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:150
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/427,770
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 32:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-427-770-32

Query Match 99.8%; Score 3400; DB 4; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2e-286;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

ADDRESSSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 MEDIUM TYPE: Floppy disk
 COMPUTER: PC DOS/MS-DOS
 OPERATING SYSTEM: PC DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/427,769
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/993,722
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,328
 REFERENCE/DOCKET NUMBER: MECO:149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3106
 TELEFAX: 512/414-7577
 INFORMATION FOR SEQ ID NO: 32:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-427-769-32

Query Match 99.8%; Score 3400; DB 4; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2e-286;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRSEHTIKTPNSLQTQNINQYPLADNPNSTLELNKREFLMTEDSSTEVLDS 60
 Db 1 MNPNRSEHTIKTPNSLQTQNINQYPLADNPNSTLELNKREFLMTEDSSTEVLDS 60
 Qy 61 TVDAVGTGIVSIVQILGVGVPPAGALTYSQFLNTIWPSPDWPKAQEVILDK 120
 Db 61 TVDAVGTGIVSIVQILGVGVPPAGALTYSQFLNTIWPSPDWPKAQEVILDK 120
 Qy 121 KIEEAKSKALAEIQLQNLNFEDYNALNSWKKPLSLRSKSDRTRLEFSAESFRN 180
 Db 121 KIEEAKSKALAEIQLQNLNFEDYNALNSWKKPLSLRSKSDRTRLEFSAESFRN 180
 Qy 181 SMPSFAVKSKPEVLFPLPTYQAANTHLLIKDAQVGEWGYSSVEDVAFYHQLKLTKQY 240
 Db 181 SMPSFAVKSKPEVLFPLPTYQAANTHLLIKDAQVGEWGYSSVEDVAFYHQLKLTKQY 240
 Qy 241 TDHCVNWTWVGLNLGRGSTDAYWKFNRRREMTLTVLDLIVLPFYDIRLYKGVKTEL 300
 Db 241 TDHCVNWTWVGLNLGRGSTDAYWKFNRRREMTLTVLDLIVLPFYDIRLISKGVTEL 300
 Qy 301 TRDIFTDPFLSNTLQEQCPTFUSIENSRKPHLFDYLGIEPHTRLOGYFCKDSFW 360
 Db 301 TRDIFTDPFLNLTQEQCPTFUSIENSRKPHLFDYLGIEPHTRLOGYFCKDSFW 360
 Qy 361 SGNYVETRSIGSSKTISPFYGDKSTEVQKLISFDGQKVYRRIANTDVAAPNGKYLG 420
 Db 361 SGNYVETRSIGSSKTISPFYGDKSTEVQKLISFDGQKVYRRIANTDVAAPNGKYLG 420
 Qy 421 VTKYDFSQDDQNETSTOYDSKRNGHVSADSIDQLPETTDEPKAYSHOLNYE 480
 Db 421 VTKYDFSQDDQNETSTOYDSKRNGHVSADSIDQLPETTDEPKAYSHOLNYE 480
 Qy 481 CFLMDQRRTIPIFFTWHRSVPDENTIDEKTOLOPVYKAYALSGASIEGFGFTCGNL 540
 Db 481 CFLMDQRRTIPIFFTWHRSVPDENTIDEKTOLOPVYKAYALSGASIEGFGFTCGNL 540

RESULT 40
 US-09-427-769-48
 ; Sequence 48, Application US/09427769
 ; Patent No. 6642030
 ; GENERAL INFORMATION:
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Brusback, Susan M.
 ; APPLICANT: Malivar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kuleza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; APPLICANT: Romano, Charles
 ; TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 ; TITLE OF INVENTION: COLEOPTERAN TOXIC CRYSTAL PROTEINS
 ; NUMBER OF SEQUENCES: 113
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/427,769
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 33,928
 ; REFERENCE/DOCKET NUMBER: MECO:149
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3106
 ; INFORMATION FOR SEQ ID NO: 48:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-09-427-769-48

Query Match 99.8%; Score 3400; DB 4; Length 652;
 Best Local Similarity 99.7%; Pred. No. 2e-286;
 Matches 650; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRSEHTIKTPNSLQTQNINQYPLADNPNSTLELNKREFLMTEDSSTEVLDS 60
 Db 1 MNPNRSEHTIKTPNSLQTQNINQYPLADNPNSTLELNKREFLMTEDSSTEVLDS 60
 Qy 61 TVDAVGTGIVSIVQILGVGVPPAGALTYSQFLNTIWPSPDWPKAQEVILDK 120
 Db 61 TVDAVGTGIVSIVQILGVGVPPAGALTYSQFLNTIWPSPDWPKAQEVILDK 120

RESULT 41
US-08-996-441B-44
Sequence 44, Application US/08996441B
Patent No. 602013
GENERAL INFORMATION:
APPLICANT: English, Leigh H.
APPLICANT: Bruscock, Susan M.
APPLICANT: Malvar, Thomas W.
APPLICANT: Bryson, Caroline A.
APPLICANT: Walters, Frederick S.
APPLICANT: Slatin, Stephen L.
APPLICANT: Von Tersch, Michael A.
APPLICANT: Romano, Charles
TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS
NUMBER OF SEQUENCES: 113
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.3.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,441B
FILING DATE: 18-DEC-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECCO:151
TELECOMMUNICATION INFORMATION:

Db 121 KIEEYAKSKAALAEQGLQNQNFDDVNALNSKMKTPPLSLRSKRSQDIREFLSOESHFRN 180 ;
SMPSPAVSKFEVLFPLTYAQANTHLLLKDQAQVFGEWQGGSSEDVAEFYHROLKLTOOY 240 ;
SMPSPAVSKFEVLFPLTYAQANTHLLLKDQAQVFGEWQGGSSEDVAEFYHROLKLTOOY 240 ;
Db 241 TDHCVNWVNGLNGCSTDWAKKENRERMETLTVLDLIVLFPPDILYSKCVKTEL 300 ;
Db 241 TDHCVNWVNGLNGCSTDWAKKENRERMETLTVLDLIVLFPPDILYSKCVKTEL 300 ;
Qy 301 TRDIFTDPISLNTLQEYGPFLSIEINSIRKPHFDLYLOGEBFHTRLQGPYFKDGSFTW 360 ;
Db 301 TRDIFTDPISLNTLQEYGPFLSIEINSIRKPHFDLYLOGEBFHTRLQGPYFKDGSFTW 360 ;
Qy 361 SGNYVETRSPIGSSKTITSPPYGDKSTEPVOKLSDFDQKQYRTIANTDAWPNGRKVLYG 420 ;
Db 361 SGNYVETRSPIGSSKTITSPPYGDKSTEPVOKLSDFDQKQYRTIANTDAWPNGRKVLYG 420 ;
Qy 421 VTKVDFESODDKNETSTQYDVKRNGHVSQDSIDQLPPTTDEPLEKAYSHOLNYAE 480 ;
Db 421 VTKVDFESODDKNETSTQYDVKRNGHVSQDSIDQLPPTTDEPLEKAYSHOLNYAE 480 ;
Qy 481 CFLMQDRGTTIPPFWTHSVDFFNTDAEKITOLPVPKAYALSSGASIEGGPGFTGCGNU 540 ;
Db 481 CFLMQDRGTTIPPFWTHSVDFFNTDAEKITOLPVPKAYALSSGASIEGGPGFTGCGNU 540 ;
Qy 541 LFKEKSSNSIAKEPKVTLNSSLQYRVRVRYASTTNRLFQNSNDFLVYINKTMNK 600 ;
Db 541 LFKEKSSNSIAKEPKVTLNSSLQYRVRVRYASTTNRLFQNSNDFLVYINKTMNK 600 ;
Qy 601 DDDLTQTFDIAATTNSNGFSCKNEELITGAFSVSNKEKIYIDKIEFIPYOL 652 ;
Db 601 DDDLTQTFDIAATTNSNGFSCKNEELITGAFSVSNKEKIYIDKIEFIPYOL 652 ;

RESULT 42
US-08-996-441B-54
Sequence 54, Application US/08996441B
Patent No. 6023013
GENERAL INFORMATION:
APPLICANT: English, Leigh H.
APPLICANT: Bruscock, Susan M.
APPLICANT: Malvar, Thomas W.
APPLICANT: Bryson, Caroline A.
APPLICANT: Walters, Frederick S.
APPLICANT: Slatin, Stephen L.
APPLICANT: Von Tersch, Michael A.
APPLICANT: Romano, Charles
TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS
NUMBER OF SEQUENCES: 113
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.3.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,441B
FILING DATE: 18-DEC-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECCO:151
TELECOMMUNICATION INFORMATION:

TITLE OF INVENTION: INSECT-RESISTANT TRANSGENIC PLANTS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.1.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,441B
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MECO:151
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-3000
 TELEFAX: 512/474-7577
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-996-441B-44

Query Match 99.8%; Score 3399; DB 3; Length 652;

Best Local Similarity 99.8%; Pred. No. 2.4e-1; Mismatches 0; Indels 0; Gaps 0;

Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRNSEDTIKTPNSLEOTNQNQYPAADNPNSTLELNKSFRLMTDSSTEVLDS 60

Db 1 MNPNRNSEDTIKTPNSLEOTNQNQYPLADNPNSTLELNKSFRLMTDSSTEVLDS 60

Qy 61 TVDAVGTGIVSIVGQILGVGVPPAGALTTSFYQSFLNTIWPSPDAKMAQEVLIDK 120

Db 61 TVDAVGTGIVSIVGQILGVGVPPAGALTTSFYQSFLNTIWPSPDAKMAQEVLIDK 120

Qy 121 KIEEYAKSALAEQLOGLQNFDTYNALNSWKTPLSRSKSDRILEFSQAESIFRN 180

Db 121 KIEEYAKSALAEQLOGLQNFDTYNALNSWKTPLSRSKSDRILEFSQAESIFRN 180

Qy 181 SMPSPAVSKPEVLELPPTKAQANTHLLIKDAQVFGEEWGYSSVEDAETYHROLKLTKQY 240

Db 181 SMPSPAVSKPEVLELPPTKAQANTHLLIKDAQVFGEEWGYSSVEDAETYHROLKLTKQY 240

Qy 241 TDHCYNNWYVGLNGLRGSTDAYWKFRPRREMTLVLDLIVLFPFYDRLYSKGVKTEL 300

Db 241 TDHCYNNWYVGLNGLRGSTDAYWKFRPRREMTLVLDLIVLFPFYDRLYSKGVKTEL 300

Qy 301 TRDIFTDPFSLNLTLQEXCPTLSTNSTRKPHLFDYLGIEPHTRLQGYFKDSFW 360

Db 301 TRDIFTDPFSLNLTLQEXCPTLSTNSTRKPHLFDYLGIEPHTRLQGYFKDSFW 360

Qy 361 SGNYVETRSGSSKTTSPFYGDKSTEVQKSFPGOKYRINTAAWNGKYLG 420

Db 361 SGNYVETRSGSSKTTSPFYGDKSTEVQKSFPGOKYRINTAAWNGKYLG 420

Qy 422 VTKVDFSQDDQNETSTOTYDSKRNGHVSQDSIDQLPPTTDEPLEKAYSHQLNVA 480

Db 422 VTKVDFSQDDQNETSTOTYDSKRNGHVSQDSIDQLPPTTDEPLEKAYSHQLNVA 480

Qy 481 CFLMDQRRTSIPPTFTWTHSVDFNTTDEAKITOLPVTYKAYLSSGASIEGGFTGCNL 540

Db 481 CFLMDQRRTSIPPTFTWTHSVDFNTTDEAKITOLPVTYKAYLSSGASIEGGFTGCNL 540

Qy 541 LFLKKESSNSIAKPKVTLNSAALLQYRVRVIRASTTNRLFVONSINDELVIVINKTMNK 600
 Db 541 LFLKKESSNSIAKPKVTLNSAALLQYRVRVIRASTTNRLFVONSINDELVIVINKTMNK 600

RESULT 43
 US-08-993-722A-44
 Sequence 44, Application US/08993722A
 ; Patent No. 6060594
 ; GENERAL INFORMATION:
 ; APPLICANT: English, Leigh H.
 ; APPLICANT: Bruscock, Susan M.
 ; APPLICANT: Malvar, Thomas M.
 ; APPLICANT: Bryson, James W.
 ; APPLICANT: Kuleza, Caroline A.
 ; APPLICANT: Walters, Frederick S.
 ; APPLICANT: Slatin, Stephen L.
 ; APPLICANT: Von Tersch, Michael A.
 ; APPLICANT: Romano, Charles
 ; TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 ; TITLE OF INVENTION: COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Arnold, White & Durkee
 ; STREET: P.O. Box 4433
 ; CITY: Houston
 ; STATE: Texas
 ; COUNTRY: USA
 ; ZIP: 77210
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.3.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/993,722A
 ; FILING DATE: 18-DEC-1997
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Kitchell, Barbara S.
 ; REGISTRATION NUMBER: 33,928
 ; REFERENCE/DOCKET NUMBER: MECO:149
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 512/418-3106
 ; TELEFAX: 512/474-7577
 ; INFORMATION FOR SEQ ID NO: 44:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-993-722A-44

Query Match 99.8%; Score 3399; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2.4e-286; Mismatches 0; Indels 0; Gaps 0;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRNSEDTIKTPNSLEOTNQNQYPAADNPNSTLELNKSFRLMTDSSTEVLDS 60

Db 1 MNPNRNSEDTIKTPNSLEOTNQNQYPLADNPNSTLELNKSFRLMTDSSTEVLDS 60

Qy 61 TVDAVGTGIVSIVGQILGVGVPPAGALTTSFYQSFLNTIWPSPDAKMAQEVLIDK 120

Db 61 TVDAVGTGIVSIVGQILGVGVPPAGALTTSFYQSFLNTIWPSPDAKMAQEVLIDK 120

Qy 121 KIEEYAKSALAEQLOGLQNFDTYNALNSWKTPLSRSKSDRILEFSQAESIFRN 180

Db 121 KIEEYAKSALAEQLOGLQNFDTYNALNSWKTPLSRSKSDRILEFSQAESIFRN 180

Qy 181 SMPSPAVSKPEVLELPPTKAQANTHLLIKDAQVFGEEWGYSSVEDAETYHROLKLTKQY 240

Db 181 SMPSPAVSKPEVLELPPTKAQANTHLLIKDAQVFGEEWGYSSVEDAETYHROLKLTKQY 240

Qy 241 TDHCYNNWYVGLNGLRGSTDAYWKFRPRREMTLVLDLIVLFPFYDRLYSKGVKTEL 300

Db 241 TDHCYNNWYVGLNGLRGSTDAYWKFRPRREMTLVLDLIVLFPFYDRLYSKGVKTEL 300

Qy 301 TRDIFTDPFSLNLTLQEXCPTLSTNSTRKPHLFDYLGIEPHTRLQGYFKDSFW 360

Db 301 TRDIFTDPFSLNLTLQEXCPTLSTNSTRKPHLFDYLGIEPHTRLQGYFKDSFW 360

Qy 361 SGNYVETRSGSSKTTSPFYGDKSTEVQKSFPGOKYRINTAAWNGKYLG 420

Db 361 SGNYVETRSGSSKTTSPFYGDKSTEVQKSFPGOKYRINTAAWNGKYLG 420

Qy 422 VTKVDFSQDDQNETSTOTYDSKRNGHVSQDSIDQLPPTTDEPLEKAYSHQLNVA 480

Db 422 VTKVDFSQDDQNETSTOTYDSKRNGHVSQDSIDQLPPTTDEPLEKAYSHQLNVA 480

Qy 481 CFLMDQRRTSIPPTFTWTHSVDFNTTDEAKITOLPVTYKAYLSSGASIEGGFTGCNL 540

Db 481 CFLMDQRRTSIPPTFTWTHSVDFNTTDEAKITOLPVTYKAYLSSGASIEGGFTGCNL 540

Qy 541 LFLKKESSNSIAKPKVTLNSAALLQYRVRVIRASTTNRLFVONSINDELVIVINKTMNK 600

Db 541 LFLKKESSNSIAKPKVTLNSAALLQYRVRVIRASTTNRLFVONSINDELVIVINKTMNK 600

Qy 181 SMPFAVSKFEYLPIYAQANTHILLKDAQVFGEWYSSVEDAEPYTHROLKLTQY 240
 Db 181 SPPSFAVSKFEYLPIYAQANTHILLKDAQVFGEWYSSVEDAEPYTHROLKLTQY 240
 Qy 241 TDHCVNMYNNGLNGRLGSTYDIAWKPNRFRREMTLTVLDLIVLFPEYDILRYSKVKTEL 300
 Db 241 TDHCVNMYNNGLNGRLGSTYDIAWKPNRFRREMTLTVLDLIVLFPEYDILRYSKVKTEL 300
 Qy 301 TRDIFTPIFSNLNTLQYGPFLSIENSIRKPHLFDTLQGEEFTRLQPFYFGKDSFNWY 360
 Db 301 TRDIFTPIFSNLNTLQYGPFLSIENSIRKPHLFDTLQGEEFTRLQPFYFGKDSFNWY 360
 Qy 361 SGNYVETRPSIGSSKTTISPFYGDKSTEPMVKLSDFOQKVYRTIANTDAAPNGKVLG 420
 Db 361 SGNYVETRPSIGSSKTTISPFYGDKSTEPMVKLSDFOQKVYRTIANTDAAPNGKVLG 420
 Qy 421 VTKVDFESQYDQNETSTQTYDTSKRNGHVSQDSIDOLPPTTDEPLEKAYSHQLYNAE 480
 Db 421 VTKVDFESQYDQNETSTQTYDTSKRNGHVSQDSIDOLPPTTDEPLEKAYSHQLYNAE 480
 Qy 481 CFLMQDRGTTIPFTWHRSDPENTDAEKITQLPVKAVALSSGASIEFGPGFTGNNL 540
 Db 481 CFLMQDRGTTIPFTWHRSDPENTDAEKITQLPVKAVALSSGASIEFGPGFTGNNL 540
 Qy 541 LFLKESSNSIAKEPVTLNSALLQLQRVRYASTINLRLFVQNSNDFLVYINKTMNK 600
 Db 541 LFLKESSNSIAKEPVTLNSALLQLQRVRYASTINLRLFVQNSNDFLVYINKTMNK 600
 Qy 601 DDDITYOTFDLATTNSNNGFSGDKNELLIGAESFSNEKYYIDKIEFIPVQL 652
 Db 601 DDDITYOTFDLATTNSNNGFSGDKNELLIGAESFSNEKYYIDKIEFIPVQL 652

RESULT 44

US-08-993-722A-54
 Sequence 54, Application US/08993-722A
 Patent No. 6060594

GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Bruscock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kulesza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Roman, Charles
 TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 TITLE OF INVENTION: COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993-722A
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,128
 REFERENCE/DOCKET NUMBER: MECCO-149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-7106
 TELEFAX: 512/474-7577

; INFORMATION FOR SEQ ID NO: 54:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 652 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-993-722A-54

Query Match	99.8%	Score 3399;
Best Local Similarity	99.8%	DB 3: Length 652;
Matches	651;	Indels 0;
Conservative	0;	Gaps 0;

Qy 1 MNPNRSEADTIKVTPNSELQTQNHNQYPLADNPNSTLERLNKEFLRMTEDSSTEVLDNS 60
 Db 1 MNPNRSEADTIKVTPNSELQTQNHNQYPLADNPNSTLERLNKEFLRMTEDSSTEVLDNS 60
 Qy 61 TVKDAVGTTGTSVVGQ1LGIVGVPPFAGALTSPYQSPNLTWPSDADPKMAQEVLIDK 120
 Db 61 TVKDAVGTTGTSVVGQ1LGIVGVPPFAGALTSPYQSPNLTWPSDADPKMAQEVLIDK 120
 Db 121 KIEFYAKSKAKAELQGLLONNFEDYDNALNSWKTKPLSLRSKRSODRILEFSQAESHFRN 180
 Db 121 KIEFYAKSKAKAELQGLLONNFEDYDNALNSWKTKPLSLRSKRSODRILEFSQAESHFRN 180
 Qy 181 SMPSPAVSKFEVLFPLTYAQAAANTHLLKDAQVGEENGYSSDVAEFTYHROLKLTKQY 240
 Db 181 SMPSPAVSKFEVLFPLTYAQAAANTHLLKDAQVGEENGYSSDVAEFTYHROLKLTKQY 240
 Db 241 TDHCVNMYNGLNGRLGSTYDAWKPNRFRREMTLTVLDLIVLFPEYDILRYSKVKTEL 300
 Db 241 TDHCVNMYNGLNGRLGSTYDAWKPNRFRREMTLTVLDLIVLFPEYDILRYSKVKTEL 300
 Qy 301 TRDIFTDPISLNLTIQEYGPFTLSEINSRKPHLDFYLOGIEFHTRLQPSYFGKDSFNWY 360
 Db 301 TRDIFTDPISLNLTIQEYGPFTLSEINSRKPHLDFYLOGIEFHTRLQPSYFGKDSFNWY 360
 Qy 361 SGNYVETRPSIGSSKTTISPFYGDKSTEPMVKLSDFOQKVYRTIANTDAAPNGKVLG 420
 Db 361 SGNYVETRPSIGSSKTTISPFYGDKSTEPMVKLSDFOQKVYRTIANTDAAPNGKVLG 420
 Qy 421 VTKVDFESQYDQNETSTQTYDTSKRNGHVSQDSIDOLPPTTDEPLEKAYSHQLYNAE 480
 Db 421 VTKVDFESQYDQNETSTQTYDTSKRNGHVSQDSIDOLPPTTDEPLEKAYSHQLYNAE 480
 Qy 481 CFLMQDRGTTIPFTWHRSDPENTDAEKITQLPVKAVALSSGASIEFGPGFTGNNL 540
 Db 481 CFLMQDRGTTIPFTWHRSDPENTDAEKITQLPVKAVALSSGASIEFGPGFTGNNL 540
 Qy 541 LFLKESSNSIAKEPVTLNSALLQLQRVRYASTINLRLFVQNSNDFLVYINKTMNK 600
 Db 541 LFLKESSNSIAKEPVTLNSALLQLQRVRYASTINLRLFVQNSNDFLVYINKTMNK 600
 Qy 601 DDDLTYTQTFDATTNSNNGFSGDKNELLIGAESFSNEKYYIDKIEFIPVQL 652
 Db 601 DDDLTYTQTFDATTNSNNGFSGDKNELLIGAESFSNEKYYIDKIEFIPVQL 652

RESULT 45

US-08-993-170A-44
 Sequence 44, Application US/08993-170A
 Patent No. 6063597
 GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Bruscock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kulesza, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: Von Tersch, Michael A.
 APPLICANT: Roman, Charles
 TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 TITLE OF INVENTION: COLEOPTERAN-TOXIC CRYSTAL PROTEINS
 NUMBER OF SEQUENCES: 113
 CORRESPONDENCE ADDRESS:
 ADDRESS: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993-170A-44
 FILING DATE: 18-DEC-1997
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,128
 REFERENCE/DOCKET NUMBER: MECCO-149
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 512/418-7106
 TELEFAX: 512/474-7577

1 CORRESPONDENCE ADDRESS:
 1 ADDRESS: Arnold, White & Durkee
 1 STREET: P.O. Box 4433
 1 CITY: Houston
 1 STATE: Texas
 1 COUNTRY: USA
 1 ZIP: 77210

1 COMPUTER READABLE FORM:
 1 MEDIUM TYPE: Floppy disk
 1 COMPUTER: IBM PC Compatible
 1 OPERATING SYSTEM: PC-DOS/MS-DOS
 1 SOFTWARE: Patent Release #1.0, Version #1.10
 1 CURRENT APPLICATION DATA:
 1 APPLICATION NUMBER: US/08/993,170A
 1 FILING DATE: 18-DEC-1997
 1 CLASSIFICATION: 424
 1 ATTORNEY/AGENT INFORMATION:
 1 NAME: Kitchell, Barbara S.
 1 REGISTRATION NUMBER: 33,928
 1 REFERENCE/DOCKET NUMBER: MBCO: 002
 1 TELECOMMUNICATION INFORMATION:
 1 TELEPHONE: 512/418-3000
 1 TELEFAX: 512/474-7577
 1 INFORMATION FOR SEQ ID NO: 44:
 1 SEQUENCE CHARACTERISTICS:
 1 LENGTH: 652 amino acids
 1 TYPE: amino acid
 1 TOPOLOGY: linear
 1 MOLECULE TYPE: protein
 1 US-08-993-170A-44

Query Match 99.8%; Score 3399; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2,4e-286; Indels 0; Gaps 0;
 Matches 651; Conservative 0; Mismatches 1;

Qy 1 MNPNRSEHDITKVTPNSLQTNHQYPADNPNSTLEELNKEFLRMTEDSSTEVLDS 60
 Db 1 MNPNRSEHDITKVTPNSLQTNHQYPADNPNSTLEELNKEFLRMTEDSSTEVLDS 60

Qy 61 TVDAVGTVGTSVVGQIIGVGVPPAGALTSPYQFLNTWPSDADPKMAQEVELIDK 120
 Db 61 TVDAVGTVGTSVVGQIIGVGVPPAGALTSPYQFLNTWPSDADPKMAQEVELIDK 120

Qy 121 KIEEYAKSKLAELQGLQNNEDTYNALMSWKTKPLSLRSKRSODRILFSQAESHPRN 180
 Db 121 KIEEYAKSKLAELQGLQNNEDTYNALMSWKTKPLSLRSKRSODRILFSQAESHPRN 180

Qy 181 SMPSPAVSKPFEVLPLPTYQAANTHLLIKDAQVGEENGYSSVEDAEPYHROLKLTOQY 240
 Db 181 SMPSPAVSKPFEVLPLPTYQAANTHLLIKDAQVGEENGYSSVEDAEPYHROLKLTOQY 240

Qy 241 TDHCVNWTVNGLNGLRGSTYDAWYKFNRRREMTLTWDLIVLFPFYDRLYKGVKTEL 300
 Db 241 TDHCVNWTVNGLNGLRGSTYDAWYKFNRRREMTLTWDLIVLFPFYDRLYKGVKTEL 300

Qy 301 TRDIFTDPFLSINTLQEQYGPTELSIENSIRKPHLFYDLYQGIEFHTRLOGYFGKDSFNYW 360
 Db 301 TRDIFTDPFLSINTLQEQYGPTELSIENSIRKPHLFYDLYQGIEFHTRLOGYFGKDSFNYW 360

Qy 361 SGNYVETRISIGSSKTTSPYFGDKESTEYQKLSFDGOKVYRTANTDAWNGKYLG 420
 Db 361 SGNYVETRISIGSSKTTSPYFGDKESTEYQKLSFDGOKVYRTANTDAWNGKYLG 420

Qy 421 VTKYDFSOQDDQNETSTOTYDQRNGHIVSAQPSIDOLQPETTDEPKAYSHQLYAE 480
 Db 421 VTKYDFSQDDQNETSTOTYDQRNGHIVSAQPSIDOLQPETTDEPKAYSHQLYAE 480

Qy 481 CFLMQDRRSTIPFFWTHRSVDFENTIDEAKITOLPVKAYALSSGASLIEGRGFTGCNL 540
 Db 481 CFLMQDRRSTIPFFWTHRSVDFNTIDEAKITOLPVYKAYALSSGASTIEGRGFTGCNL 540

Qy 541 LFLKESSNSIAKFKVTLNSAALLORYRYRRASTTNRLFVQNSNNPDLVIVINKTMNK 600
 Db 541 LFLKESSNSIAKFKVTLNSAALLORYRYRRASTTNRLFVQNSNNPDLVIVINKTMNK 600

RESULT 46
 US-08-993-170A-54
 Sequence 54, Application US/08993170A
 Patent No. 6063597

GENERAL INFORMATION:
 APPLICANT: English, Leigh H.
 APPLICANT: Brussock, Susan M.
 APPLICANT: Malvar, Thomas M.
 APPLICANT: Bryson, James W.
 APPLICANT: Kuliesa, Caroline A.
 APPLICANT: Walters, Frederick S.
 APPLICANT: Slatin, Stephen L.
 APPLICANT: von Tersch, Michael A.

TITLE OF INVENTION: POLYPEPTIDE COMPOSITIONS TOXIC TO COLEOPTERAN INSECTS

NUMBER OF SEQUENCES: 1.1.3

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: Texas
 COUNTRY: USA
 ZIP: 77210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.3.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/993,170A
 FILING DATE: 18-DEC-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitchell, Barbara S.
 REGISTRATION NUMBER: 33,928
 REFERENCE/DOCKET NUMBER: MBCO: 002
 TELECOMMUNICATION INFORMATION:
 CLASSIFICATION: 424
 TELEPHONE: 512/418-3000
 TELEXFAX: 512/474-7577
 INFORMATION FOR SEQ ID NO: 54:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-993-170A-54

Query Match 99.8%; Score 3399; DB 3; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2,4e-286;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRSEHDITKVTPNSLQTNHQYLADPNSTLEELNKEFLRMTEDSSTEVLDS 60
 Db 1 MNPNRSEHDITKVTPNSLQTNHQYLADPNSTLEELNKEFLRMTEDSSTEVLDS 60

Qy 121 KIEBAYAKSKALABQLOGLNNFEDYVNAWSKTKPLSLRSKRSODRILFSQAESHPRN 180
 Db 121 KIEBAYAKSKALABQLOGLNNFEDYVNAWSKTKPLSLRSKRSODRILFSQAESHPRN 180

Qy 181 SMPSPAVSKPFEVLPLPTYQAANTHLLIKDAQVGEENGYSSVEDAEPYHROLKLTOQY 240
 Db 181 SMPSPAVSKPFEVLPLPTYQAANTHLLIKDAQVGEENGYSSVEDAEPYHROLKLTOQY 240

Qy 241 TDHCVNWTVNGLNGLRGSTYDAWYKFNRRREMTLTWDLIVLFPFYDRLYKGVKTEL 300
 Db 241 TDHCVNWTVNGLNGLRGSTYDAWYKFNRRREMTLTWDLIVLFPFYDRLYKGVKTEL 300

Qy 301 TRDIFTDPFLSINTLQEQYGPTELSIENSIRKPHLFYDLYQGIEFHTRLOGYFGKDSFNYW 360
 Db 301 TRDIFTDPFLSINTLQEQYGPTELSIENSIRKPHLFYDLYQGIEFHTRLOGYFGKDSFNYW 360

Qy 361 SGNYVETRISIGSSKTTSPYFGDKESTEYQKLSFDGOKVYRTANTDAWNGKYLG 420
 Db 361 SGNYVETRISIGSSKTTSPYFGDKESTEYQKLSFDGOKVYRTANTDAWNGKYLG 420

Qy 421 VTKYDFSOQDDQNETSTOTYDQRNGHIVSAQPSIDOLQPETTDEPKAYSHQLYAE 480
 Db 421 VTKYDFSQDDQNETSTOTYDQRNGHIVSAQPSIDOLQPETTDEPKAYSHQLYAE 480

Qy 481 CFLMQDRRSTIPFFWTHRSVDFENTIDEAKITOLPVKAYALSSGASLIEGRGFTGCNL 540
 Db 481 CFLMQDRRSTIPFFWTHRSVDFNTIDEAKITOLPVYKAYALSSGASTIEGRGFTGCNL 540

Qy 541 LFLKESSNSIAKFKVTLNSAALLORYRYRRASTTNRLFVQNSNNPDLVIVINKTMNK 600
 Db 541 LFLKESSNSIAKFKVTLNSAALLORYRYRRASTTNRLFVQNSNNPDLVIVINKTMNK 600

TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-993-775B-44

Query Match 99.8%; Score 3399; DB 3; Length 652;
Best Local Similarity 99.8%; Pred. NO. 2, 4e-24;
Matches 651; Conservative 0; Mismatches 1; indels 0; Gaps 0;

Qy 1 MNPNRSEHDITKTPNSLQTNINQPLADNPNSTLEELNYKEPRLMTEDSSTEVLNDN 60
Db 1 MNPNRSEHDITKTPNSLQTNINQPLADNPNSTLEELNYKEPRLMTEDSSTEVLNDN 60

Qy 61 TVKDAVGIGTSVQIGLGVGPPFAGLTSFYQSPLNTIWPSDADWKAFMAQEVNLIDK 120
Db 61 TVKDAVGIGTSVQIGLGVGPPFAGLTSFYQSPLNTIWPSDADWKAFMAQEVNLIDK 120

Qy 121 KIEEYAKSKALAAEQLQNNFEDYNAIANSWKTKPLSLRSKRSODIRELFSQAEHFRN 180
Db 121 KIEEYAKSKALAAEQLQNNFEDYNAIANSWKTKPLSLRSKRSODIRELFSQAEHFRN 180

Qy 181 SMPFAVSKEFLPLPTYAQAANTHLLKDQVGEENGSSEDAEFYHQLKLTTQY 240
Db 181 SMPFAVSKEFLPLPTYAQAANTHLLKDQVGEENGSSEDAEFYHQLKLTTQY 240

Qy 241 TDHCVCNWYNGLNGLRGSTYDAWKFRNFRERMLTVLDLIVLFPPDYLTSKGKVKTEL 300
Db 241 TDHCVCNWYNGLNGLRGSTYDAWKFRNFRERMLTVLDLIVLFPPDYLTSKGKVKTEL 300

Qy 301 TRDIFTDPISLNLTQLEYGPTELSIENSTRKPHLFDYLOGIEFHTRLQPGFGKDSFNYW 360
Db 301 TRDIFTDPISLNLTQLEYGPTELSIENSTRKPHLFDYLOGIEFHTRLQPGFGKDSFNYW 360

Qy 361 SGNYVETRPSIGSSKTITSFYGDKSTPEVKLSDGQKVYRTTANTDVAWPNKGKYLG 420
Db 361 SGNYVETRPSIGSSKTITSFYGDKSTPEVKLSDGQKVYRTTANTDVAWPNKGKYLG 420

Qy 421 VTKDFSGYDDQNETSTOTYDKRNRGHSAQSDIDLPETTDEPLEKAYSHOLNAYE 480
Db 421 VTKDFSGYDDQNETSTOTYDKRNRGHSAQSDIDLPETTDEPLEKAYSHOLNAYE 480

Qy 481 CPMQDRGTIPFTWTHRSVDFFNTIDAETKQLPVKAYAASSGATIEGGFTGQNL 540
Db 481 CPMQDRGTIPFTWTHRSVDFFNTIDAETKQLPVKAYAASSGATIEGGFTGQNL 540

Qy 541 LFLEKESNSIAKPKVTLNSAALLQRYRVRIRYASTTNNRLFVONSNNDFLYTINKTMNK 600
Db 541 LFLEKESNSIAKPKVTLNSAALLQRYRVRIRYASTTNNRLFVONSNNDFLYTINKTMNK 600

Qy 601 DDDLTYQTFDATTNSNNGFSDKNELLIGAESFVSNEKIIDKIEFPVQL 652
Db 601 DDDLTYQTFDATTNSNNGFSDKNELLIGAESFVSNEKIIDKIEFPVQL 652

Qy 601 DDDLTYQTFDATTNSNNGFSDKNELLIGAESFVSNEKIIDKIEFPVQL 652

RESULT 47
US-08-993-775B-44
Sequence 44, Application US/08993775B
; Patent No. 6077824
; GENERAL INFORMATION:
; APPLICANT: English, Leigh H.
; APPLICANT: Brussock, Susan M.
; APPLICANT: Malvar, Thomas M.
; APPLICANT: Bryson, James W.
; APPLICANT: Bryson, James W.
; APPLICANT: Kuleza, Caroline A.
; APPLICANT: Walters, Frederick S.
; APPLICANT: Slatin, Stephen L.
; APPLICANT: Von Tersch, Michael A.
TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF
TITLE OF INVENTION: DELTA-ENDOTOXINS AGAINST INSECT PESTS
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/993,775B
; FILING DATE: 18-DEC-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Kitchell, Barbara S.
; REGISTRATION NUMBER: 33,928
; REFERENCE DOCKET NUMBER: MECO:150
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEX/FAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
; LENGTH: 652 amino acids
; TYPE: amino acid
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston

RESULT 48
US-08-993-775B-54
; Sequence 54, Application US/08993775B
; Patent No. 6077824
; GENERAL INFORMATION:
; APPLICANT: English, Leigh H.
; APPLICANT: Brussock, Susan M.
; APPLICANT: Malvar, Thomas M.
; APPLICANT: Bryson, James W.
; APPLICANT: Kuleza, Caroline A.
; APPLICANT: Walters, Frederick S.
; APPLICANT: Slatin, Stephen L.
; APPLICANT: Von Tersch, Michael A.
; TITLE OF INVENTION: METHODS FOR IMPROVING THE ACTIVITY OF
; TITLE OF INVENTION: DELTA-ENDOTOXINS AGAINST INSECT PESTS
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston

STATE: Texas
COUNTRY: USA
ZIP: 77210

COMPUTER READABLE FORM:
MEDIUM: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.10
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,775B
FILING DATE: 18-DEC-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECO-150
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEX/FAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 54:

SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-993-775B-54

Query Match 99.8%; Score 3399; DB 3; Length 652;
Best Local Similarity 99.8%; Pred. No. 2.4e-286;
Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRSEHDITKTPNSLQTNHINQYPLADNPNSTLLELNKYKEFLRMTEDSSTEVLDNS 60
Db 1 MNPNRSEHDITKTPNSLQTNHINQYPLADNPNSTLLELNKYKEFLRMTEDSSTEVLDNS 60
Qy 61 TVDAVGTGIVSYYGILGVGVPPAGALTFSYQSFLNTWPSDADPKMAQEVILDK 120
Db 61 TVDAVGTGIVSYYGILGVGVPPAGALTFSYQSFLNTWPSDADPKMAQEVILDK 120
Qy 121 KIEEYAKSKALAAELQGLQNFFDYNALNSWKTKPLSLRSKSDRIRLFSQAESHRN 180
Db 121 KIEEYAKSKALAAELQGLQNFFDYNALNSWKTKPLSLRSKSDRIRLFSQAESHRN 180
Qy 181 SMPSFAVKSKPEVLFPLTYQAANTHLLIKDAQVFGEEGYSSVEDAFTYHQLKLHQY 240
Db 181 SMPSFAVKSKPEVLFPLTYQAANTHLLIKDAQVFGEEGYSSVEDAFTYHQLKLHQY 240
Qy 241 TDHCYNTWVNGLNGRLGSTYDAWKENRPREMTLTLLIVLFPFYDLRYSGKVKTBL 300
Db 241 TDHCYNTWVNGLNGRLGSTYDAWKENRPREMTLTLLIVLFPFYDLRYSGKVKTBL 300
Qy 301 TRDIFTDPFLSLNTLQCYPTFLSTNSTRKPHFLDYLGIEFHTRLOGYFKDSFNYW 360
Db 301 TRDIFTDPFLSLNTLQCYPTFLSTNSTRKPHFLDYLGIEFHTRLOGYFKDSFNYW 360
Qy 361 SGNYVETRSPIGSSKTTSPFYGDKSTEPVQKLSFDGQKVYRANTVAANGKYG 420
Db 361 SGNYVETRSPIGSSKTTSPFYGDKSTEVQKLSFDGQKVYRANTVAANGKYG 420
Qy 421 VTKYDFSQDDQNETSTOTYDSKRNGHVSADSIDQLPETDEPLEKAYSHOLNVA 480
Db 421 VTKYDFSQDDQNETSTOTYDSKRNGHVSADSIDQLPETDEPLEKAYSHOLNVA 480
Qy 481 CFLMQDRRTTIPFTWTHSVDFTNTIDEKTFPQVYKAYASTNLFLVYINKTMNK 540
Db 481 CFLMQDRRTTIPFTWTHSVDFTNTIDEKTFPQVYKAYASTNLFLVYINKTMNK 540
Qy 541 LFLKESNSIAKPKVTLNSAALLQRYVRARYASTNLFLVYINKTMNK 600
Db 541 LFLKESNSIAKPKVTLNSAALLQRYVRARYASTNLFLVYINKTMNK 600
Qy 601 DDDITYQTFLATINNSNNCGSGDKNELLIGAESFSNEKUYDKIEFTPVQL 652
Db 601 DDDITYQTFLATINNSNNCGSGDKNELLIGAESFSNEKUYDKIEFTPVQL 652

RESULT 49
US-09-427-770-44
Sequence 44, Application US/094277770
Patent No. 6620588

GENERAL INFORMATION:
APPLICANT: English, Leigh H.
APPLICANT: Brussock, Susan M.
APPLICANT: Malvar, Thomas M.
APPLICANT: Bryson, James W.
APPLICANT: Kulesza, Caroline A.
APPLICANT: Walters, Frederick S.
APPLICANT: Slatin, Stephen L.
APPLICANT: Von Tersch, Michael A.
APPLICANT: Romano, Charles

TITLE OF INVENTION: NUCLEIC ACID SEGMENTS ENCODING MODIFIED COLEOPTERAN-TOXIC CRYSTAL PROTEINS

NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/427,770
FILING DATE:
CLASIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/993,722
FILING DATE: 18-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: MECO-149
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3106
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-09-427-770-44

Query Match 99.8%; Score 3399; DB 4; Length 652;
Best Local Similarity 99.8%; Pred. No. 2.4e-286;
Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNPNRSEHDITKTPNSLQTNHINQYPLADNPNSTLLELNKYKEFLRMTEDSSTEVLDNS 60
Db 1 MNPNRSEHDITKTPNSLQTNHINQYPLADNPNSTLLELNKYKEFLRMTEDSSTEVLDNS 60
Qy 121 KIEYAKSKALAAELQGLQNFFDYNALNSWKTKPLSLRSKSDRIRLFSQAESHRN 180
Db 121 KIEYAKSKALAAELQGLQNFFDYNALNSWKTKPLSLRSKSDRIRLFSQAESHRN 180
Qy 181 SMPSFAVKSKPEVLFPLTYQAANTHLLIKDAQVFGEEGYSSVEDAFTYHQLKLHQY 240
Db 181 SMPSFAVKSKPEVLFPLTYQAANTHLLIKDAQVFGEEGYSSVEDAFTYHQLKLHQY 240
Qy 241 TDHCYNTWVNGLNGRLGSTYDAWKENRPREMTLTLLIVLFPFYDLRYSGKVKTBL 300
Db 241 TDHCYNTWVNGLNGRLGSTYDAWKENRPREMTLTLLIVLFPFYDLRYSGKVKTBL 300
Qy 301 TRDIFTDPFLSLNTLQCYPTFLSTNSTRKPHFLDYLGIEFHTRLOGYFKDSFNYW 360
Db 301 TRDIFTDPFLSLNTLQCYPTFLSTNSTRKPHFLDYLGIEFHTRLOGYFKDSFNYW 360
Qy 361 SGNYVETRSPIGSSKTTSPFYGDKSTEPVQKLSFDGQKVYRANTVAANGKYG 420
Db 361 SGNYVETRSPIGSSKTTSPFYGDKSTEVQKLSFDGQKVYRANTVAANGKYG 420
Qy 421 VTKYDFSQDDQNETSTOTYDSKRNGHVSADSIDQLPETDEPLEKAYSHOLNVA 480
Db 421 VTKYDFSQDDQNETSTOTYDSKRNGHVSADSIDQLPETDEPLEKAYSHOLNVA 480
Qy 481 CFLMQDRRTTIPFTWTHSVDFTNTIDEKTFPQVYKAYASTNLFLVYINKTMNK 540
Db 481 CFLMQDRRTTIPFTWTHSVDFTNTIDEKTFPQVYKAYASTNLFLVYINKTMNK 540
Qy 541 LFLKESNSIAKPKVTLNSAALLQRYVRARYASTNLFLVYINKTMNK 600
Db 541 LFLKESNSIAKPKVTLNSAALLQRYVRARYASTNLFLVYINKTMNK 600
Qy 601 DDDITYQTFLATINNSNNCGSGDKNELLIGAESFSNEKUYDKIEFTPVQL 652
Db 601 DDDITYQTFLATINNSNNCGSGDKNELLIGAESFSNEKUYDKIEFTPVQL 652

Qy 241 TDHCVNWYNGLRLGSTYDAWKENRFRREMTLTVDLIVLFPEYDILYSKGVKTEL 300
 Db 241 TDHCVNWYNGLRLGSTYDAWKENRFRREMTLTVDLIVLFPEYDILYSKGVKTEL 300
 Qy 301 TRDIFTDPISLNTLOEYGPPTLSIENSIRKPHLPDYLOGIEFHTRQLQGPYFKDSFNWY 360
 Db 301 TRDIFTDPISLNTLOEYGPPTLSIENSIRKPHLPDYLOGIEFHTRQLQGPYFKDSFNWY 360
 Query Match 99.8%; Score 3399; DR 4; Length 652;
 Best Local Similarity 99.8%; Pred. No. 2.4e-286;
 Matches 651; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 ; INFORMATION FOR SEQ ID NO: 54:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-09-427-770-54

Qy 361 SGNYVETRSPICSSKTTSPFYGDKSTEPIVKLSPQKTYRKTANTDAWPNGKVLYG 420
 Db 361 SGNYVETRSPICSSKTTSPFYGDKSTEPIVKLSPQKTYRKTANTDAWPNGKVLYG 420
 Qy 421 VTKVDFSOYDDORNETSTQTYDSKRNGHVSQADSIDOLPPTTDEPLEKAYSHQNYAE 480
 Db 421 VTKVDFSOYDDORNETSTQTYDSKRNGHVSQADSIDOLPPTTDEPLEKAYSHQNYAE 480
 Qy 481 CFLMDQRGTTPFETWTHSYDFENTDAEKHTOLPYVKAYALSSASIELEGPGFTGGNU 540
 Db 481 CFLMDQRGTTPFETWTHSYDFENTDAEKHTOLPYVKAYALSSASIELEGPGFTGGNU 540
 Qy 541 LPLKESSNSIAKPKVTLNSAALLQRTRVRYASTTNRLFVQNSNNDFLVIVINKTMNK 600
 Db 541 LPLKESSNSIAKPKVTLNSAALLQRTRVRYASTTNRLFVQNSNNDFLVIVINKTMNK 600
 Qy 601 DDDLTYOTFDLATTSNMGFSGDNELIJGAESFSVNEKIVYDKEBFIPVQL 652
 Db 601 DDDLTYOTFDLATTSNMGFSGDNELIJGAESFSVNEKIVYDKEBFIPVQL 652
 Qy 241 TDHCVNWYNGLRLGSTYDAWKFRFRREMTLTVDLIVLFPEYDILYSKGVKTEL 300
 Db 241 TDHCVNWYNGLRLGSTYDAWKFRFRREMTLTVDLIVLFPEYDILYSKGVKTEL 300
 Qy 301 TRDIFTDPISLNTLOEYGPFLSIESTRKPHLFDYLOGIEFHTRQLQGPYFKDSFNWY 360
 Db 301 TRDIFTDPISLNTLOEYGPFLSIESTRKPHLFDYLOGIEFHTRQLQGPYFKDSFNWY 360
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 TITLE OF INVENTION: NUCLEAR ACID SEGMENTS ENCODING MODIFIED
 TITLE OF INVENTION: COLOPTERAN-TOXIC CRYSTAL PROTEINS
 NUMBER OF SEQUENCE: 113
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 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
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